DCN 1091

225

ENVIRONMENTAL DATA CALL:
DATA CALL TO BE SUBMITTED TO
ALL NAVY/MARINE CORPS HOST ACTIVITIES

May 20, 1994

Maps held In Original

BRAC 1995 ENVIRONMENTAL DATA CALL:
All Navy/Marine Corps Host Activities

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ENVIRONMENTAL DATA CALL

Responses to the following questions provide data that will allow an assessment of the potential environmental impact associated with the closure or realignment of a Navy shore activity. This criterion consists of:

- Endangered/Threatened Species and Biological Habitat
- Wetlands
- Cultural Resources
- Environmental Facilities
- Air Pollution
- Environmental Compliance
- Installation Restoration
- Land/Air/Water Use

As part of the answers to these questions, a *source citation* (e.g., 1993 base loading, 1993 base-wide Endangered Species Survey, 1993 letter from USFWS, 1993 Base Master Plan, 1993 Permit Application, 1993 PA/SI, etc.) must be included. It is probable that, at some point in the future, you will be asked to provide additional information detailing specifics of individual characteristics. In anticipation of this request, supporting documentation (e.g., maps, reports, letters, etc.) regarding answers to these questions should be retained. Information needed to answer these questions is available from the cognizant EFD Planning and Real Estate Divisions, and Environment, Safety, and Health Divisions; and from the activity Public Works Department, and activity Health Monitoring and Safety Offices.

For purposes of the questions associated with land use at your base is *defined* as *land* (acreage owned, withdrawn, leased, and controlled through easements); *air* (space controlled through agreements with the FAA, e.g., MOAs); *and water* (navigation channels and waters along a base shoreline) *under the control of the Navy.*

Provide a list of the tenant activities with UICs that are covered in this response.

TENANT ACTIVITY	UIC/DODAAC
Chief of Naval Air Training	**63110**
Mine Warfare Command	**57011**
U.S. Customs	**47111**
Naval Reserve Center	**61978**
Naval Hospital	**00285**
U.S. Coast Guard	**Z20245**
Corpus Christi Army Depot	**WOMUAA**

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ENVIRONMENTAL DATA CALL

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As part of the answers to these questions, a *source citation* (e.g., 1993 base loading, 1993 base-wide Endangered Species Survey, 1993 letter from USFWS, 1993 Base Master Plan, 1993 Permit Application, 1993 PA/SI, etc.) must be included. It is probable that, at some point in the future, you will be asked to provide additional information detailing specifics of individual characteristics. In anticipation of this request, supporting documentation (e.g., maps, reports, letters, etc.) regarding answers to these questions should be retained. Information needed to answer these questions is available from the cognizant EFD Planning and Real Estate Divisions, and Environment, Safety, and Health Divisions; and from the activity Public Works Department, and activity Health Monitoring and Safety Offices.

For purposes of the questions associated with land use at your base is *defined* as *land* (acreage owned, withdrawn, leased, and controlled through easements); *air* (space controlled through agreements with the FAA, e.g., MOAs); *and water* (navigation channels and waters along a base shoreline) *under the control of the Navy.*

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Reference Documents for BRAC 33
DATA Call Sections 4, 5, 6, 7 and 9

1. POM-96 Budget submission (1994)
2. PCR Listing for NASCORPC (1993/1994)
3. RCRA Part B Permit (1993)
4. Wastewater permit application submitted to State of Texas (1993)
5. State of Texas Wastewater Discharge Permit (1991)
6. Coastal Zone Management Plan (1994)
7. Cape Environmental Services Asbestos Survey (1993)
8. NASCORPC Hazard Ranking System Final Scoring Report (1992)
9. IRP Information Repository (1993)
10. FY94 Budget Submission (1993)

1. ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT

1a. For federal or state listed endangered, threatened, or category 1 plant and/or animal species on your base, complete the following table. Critical/sensitive habitats for these species are designated by the U. S. Fish and Wildlife Service (USFWS). A species is present on your base if some part of its life-cycle occurs on Navy controlled property (e.g., nesting, feeding, loafing). Important Habitat refers to that number of acres of habitat that is important to some life cycle stage of the threatened/endangered species that is not formally designated.

SPECIES (plant or animal)	**Designation (Threatened/ Endangered)**	**Federal/ State**	**Critical / Designated Habitat (Acres)**	**Important Habitat (acres)**
example: Haliaeetus leucocephalus - bald eagle	*threatened*	*Federal*	*25*	*0*
Pelecanus occidentalis, Brown Pelican	endangered	Federal State	no survey	
Buteo albicaudatus, White Tailed Hawk	threatened	State	no survey	
Chelonia mydas mydas, Green Turtle	threatened	Federal State	offshore	No nesting
Eretmochelys imbricata imbricata, Atlantic Hawksbill Turtle	endangered	Federal State	offshore	No nesting
Caretta caretta, Loggerhead Turtle	threatened endangered	Federal State	offshore	No nesting
Lepidochelys kempi, Atlantic Ridley Turtle	endangered	Federal State	offshore	No nesting

NOTE: See attached for other listings of potential residents, visitors or migrants

Source Citation: **1992 Final Report Texas Parks and Wildlife Department Plant Survey**
*** no endangered or threatened plants found. (see enclosure 2) 1994-1999 SOUTHNAVFACENGCOM Fish and Wildlife Management Plan List**
*** (see enclosure 1)**

1b.

Have your base operations or development plans been constrained due to: - USFWS or National Marine Fisheries Service (NMFS)? - State required modifications or constraints? If so, identify below the impact of the constraints including any restrictions on land use. **See agreement enclosure (3)**	**NO**
Are there any requirements resulting from species not residing on base, but which migrate or are present nearby? If so, summarize the impact of such constraints. **Turtle sightings/strandings <u>must</u> be reported immediately.**	**YES**

1c. If the area of the habitat and the associated species have not been identified on base maps provided in Data Call 1, submit this information on an updated version of Data Call 1 map.

No additional maps are available or substantiated. Only list of potential species (animals) are provided in enclosures for 1a. Maps are provided through plant survey.

1d.

Have any efforts been made to relocate any species and/or conduct any mitigation with regards to critical habitats or endangered/threatened species? Explain what has been done and why.	**NO**

1e.

Will any state or local laws and/or regulations applying to endangered/threatened species which have been enacted or promulgated but not yet effected, constrain base operations or development plans beyond those already identified? Explain.	**NO**

Letter on file

00216 22Jul94

2. WETLANDS

Note: Jurisdictional wetlands are those areas that meet the wetland definitional criteria detailed in the Corps of Engineers (COE) Wetland Delineation Manual, 1987, Technical Report Y-87-1, U.S. Army Engineer Waterway Experiment Station, Vicksburg, MS or officially adapted state definitions.

2a.

Does your base possess federal jurisdictional wetlands?	**YES**
Has a wetlands survey in accordance with established standards been conducted for your base?	**YES**
When was the survey conducted or when will it be conducted? **1/22/92 COE staked wetlands for NASCORPC 100%; only 50% mapped; not OLF's Note: USFWS standards 100% by GEONEX includes OLF's**	**N/A**
What percent of the base has been surveyed? **NASCORPC 100% COE 50% mapped Waldron and Cabaniss OLFs 0%**	**60% COE**
What is the total acreage of jurisdictional wetlands present on your base?	**127ac**

Source Citation: **1992 Galveston District (Corpus Christi local incl.) Site Work-staking 1992 Survey Mapping Contract (only areas inside perimeter fence/flightline)**

2b. If the area of the wetlands has not been identified on base maps provided in Data Call 1, submit this on an updated version of Data Call 1 map.

See attached updated Wetland Map COE criteria only. Enclosure (4)

2c. Has the EPA, COE or a state wetland regulatory agency required you to modify or constrain base operations ~~or~~ development plans in any way in order to accommodate a jurisdictional wetland? X **NO** ___ If YES, summarize the results of such modifications or constraints. R

2. WETLANDS

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When was the survey conducted or when will it be conducted? **1/22/92 COE staked wetlands for NASCORPC 100%; only 50% mapped; not OLF's Note: USFWS standards 100% by GEONEX includes OLF's**	**N/A**
What percent of the base has been surveyed? **NASCORPC 100% COE 50% mapped Waldron and Cabaniss OLFs 0%**	**60% COE**
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2b. If the area of the wetlands has not been identified on base maps provided in Data Call 1, submit this on an updated version of Data Call 1 map.

See attached updated Wetland Map COE criteria only. Enclosure (4)

2c. Has the EPA, COE or a state wetland regulatory agency required you to modify or constrain base operations or development plans in any way in order to accommodate a jurisdictional wetland?___**YES**___If YES, summarize the results of such modifications or constraints. **Within the last seven years the Navy has wanted to fill in the depressions (reworking existing drainage system) between the main landing strip and a taxiway due to bird airstrike hazard potential. Held due to mitigation requirements.**

3. CULTURAL RESOURCES

3a.

Has a survey been conducted to determine historic sites, structures, districts or archaeological resources which are listed, or determined eligible for listing, on the National Register of Historic Places? If so, list the sites below.	**YES**

See enclosure (6)

3b.
YES/NO

Has the President's Advisory Council on Historic Preservation or the cognizant State Historic Preservation Officer required you to mitigate or constrain base operations or development plans in any way in order to accommodate a National Register cultural resource? If YES, list the results of such modifications or constraints below. **See enclosure (6,7,9 and 10)**	**YES**

Please note Phase II survey of 2 archeological sites was not recommended by the State Historic Preservation Officer in letter dated 29 June 1993. Refer enclosure (5 and 8) Also note Peary Place was not surveyed for cultural resources.

3c.

Are there any on base areas identified as sacred areas or burial sites by Native Americans or others? List below.	**NO**

4. ENVIRONMENTAL FACILITIES

Notes: If your facility is permitted for less than maximum capacity, state the maximum capacity and explain below the associated table why it is not permitted for maximum capacity. Under "Permit Status" state when the permit expires, and whether the facility is operating under a waiver. For permit violations, limit the list to the last 5 years.

4a.

Does your base have an operating landfill?					**NO**
ID/Location of Landfill	**Permitted Capacity (CYD)**		**Maximum Capacity (CYD)**	**Contents[1]**	**Permit Status**
	TOTAL	**Remaining**			

[1] Contents (e.g. building demolition, asbestos, sanitary debris, etc)

Are there any current or programmed projects to correct deficiencies or improve the facility.
N/A No landfill exists

4b. If there are any non-Navy users of the landfill, describe the user and conditions/agreements.
N/A

4c.

Does your base have any disposal, recycling, or incineration facilities for solid waste?					**NO**
Facility/Type of Operation	**Permitted Capacity**	**Ave Daily Throughput**	**Maximum Capacity**	**Permit Status**	**Comments**

List any permit violations and projects to correct deficiencies or improve the facility.

Note that while the station does not have a recycling facility, it does have a recycling program.

4d.

Does your base own/operate a Domestic Wastewater Treatment Plant (WWTP) ?					YES
ID/Location of WWTP	**Permitted Capacity**	**Ave Daily Discharge Rate**	**Maximum Capacity**	**Permit Status**	**Level of Treatment/Year Built**
Ocean Drive*	**1.50 MGD**	**0.88 MGD**	**2.50 MGD**	**Both state & NPDES**	**Secondary/1942**

*** Permitted capacity of the plant is 1.50 MGD average flow per month. The maximum permitted flow for any given day is 3.75 MGD. The permitted limits include flow from the IWTP because the IWTP and WWTP flows combine.**

List permit violations and discuss any projects to correct deficiencies. **Violations of discharge limits for Coliform, Nickel, and Silver have occurred in the past year (May 93-May 94). A permit modification to provide relaxed discharge limits for metals is pending and expected within 60 days. A project to upgrade or repair the WWTP is slated for FY95.**

4e. If you do not have a domestic WWTP, describe the average discharge rate of your base to the local sanitary sewer authority, discharge limits set by the sanitary sewer authority (flow and pollutants) and whether the base is in compliance with their permit. Discuss recurring discharge violations. **N/A**

4f.

Does your base operate an Industrial Waste Treatment Plant (IWTP)?					YES
ID/Location of IWTP	**Type of Treatment**	**Permitted Capacity**	**Ave Daily Discharge Rate**	**Maximum Capacity**	**Permit Status**
Ocean Drive	**Biological Treatment ***	**0.5 MGD ****	**0.23 MGD**	**0.5 MGD**	**State & NPDES**
①	① PHYS-CHEMICAL PRETREATMENTS				

*** Biological Treatment unit is an activated sludge type process.**
**** 0.5 MGD is the average daily permitted flow. The permit also allows for a maximum daily flow of 1.0 MGD.**

① PER PHONCON J. BOATMAN, R. STEWART 6/7/94.

List any permit violations and projects to correct deficiencies or improve the facility. **None, however the station is currently in the middle of a $250K project to repair the IWTP. In FY94 we brought a new $400K pretreatment plant that feeds the IWTP on line.**

4g. Are there other waste treatment flows not accounted for in the previous tables? Estimate capacity and describe the system. **NO**

4h.

Does your base operate drinking Water Treatment Plants (WTP)?					**NO**
ID/Location of WTP	**Operating (GPD)**		**Method of Treatment**	**Maximum Capacity**	**Permit Status**
	Permitted Capacity	**Daily Rate**			

List permit violations and projects/actions to correct deficiencies or improve the facility.

4i. If you do not operate a WTP, what is the source of the base potable water supply. State terms and limits on capacity in the agreement/contract, if applicable.

The station purchases its water from the city of Corpus Christi.

4j.

Does the presence of contaminants or lack of supply of water constrain base operations. Explain.	**NO**

4k.

Other than those described above does your base hold any NPDES or stormwater permits? If YES, describe permit conditions.	**NO**
If NO, why not and provide explanation of plan to achieve permitted status.	

Station stormwater permit is part of group permit application that was submitted by NAVFACENGCOM.

4l.

	YES/NO
Does your base have bilge water discharge problem?	**No**
Do you have a bilge water treatment facility?	**No**

Explain:

4m.

Will any state or local laws and/or regulations applying to Environmental Facilities, which have been enacted or promulgated but not yet effected, constrain base operations or development plans beyond those already identified? Explain.	**YES**

Coastal Zone Management Plan that is being developed pursuant to Coastal Zone Management Act may impact the renewal of the stations Hazardous Waste permit (that must be renewed in Oct 95).

4n. What expansion capacity is possible with these Environmental Facilities? Will any expansions/upgrades as a result of BRACON or projects programmed through the Presidents budget through FY1997 result in additional capacity? Explain.

Expansion capacity of environmental facilities is not planned in the near future.

4o. Do capacity limitations on any of the facilities discussed in question 4 pose a present or future limitation on base operations? Explain. **No, existing environmental facilities are sufficient to accommodate future operations projected for the station.**

5. AIR POLLUTION

5a.

What is the name of the Air Quality Control Areas (AQCAs) in which the base is located? __**Nueces County**_____
Is the installation or any of its OLFs or non-contiguous base properties located in different AQCAs? _____**No**_____ . List site, location and name of AQCA.

5b. For each parcel in a separate AQCA fill in the following table. Identify with and "X" whether the status of each regulated pollutant is: attainment/nonattainment/maintenance. For those areas which are in non-attainment, state whether they are: Marginal, Moderate, Serious, Severe, or Extreme. State target attainment year.

Site: NASCORPC AQCA: Nueces County

Pollutant	Attainment	Non-Attainment	Maintenance	Target Attainment Year[1]	Comments[2]
CO	X				N/A
Ozone	X				N/A
PM-10	X				N/A
SO_2	X				N/A
NO_2	X				N/A
Pb	X				N/A

[1] Based on national standard for Non-Attainment areas or SIP for Maintenance areas.
[2] Indicate if attainment is dependent upon BRACON, MILCON or Special Projects. Also indicate if the project is currently programmed within the Presidents FY1997 budget.

5c. For your base, identify the baseline level of emissions, established in accordance with the Clean Air Act. Baseline information is assumed to be 1990 data or other year as specified. Determine the total level of emissions (tons/yr) for CO, NOx, VOC, PM10 for the general sources listed. For all data provide a list of the sources and show your calculations. Use known emissions data, or emissions derived from use of state methodologies, or identify other sources used. "Other Mobile" sources include such items as ground support equipment.

	Emission Sources (Tons/Year)				
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	**7.64***	**Unknown**	**Unknown**	**Unknown**	**Unknown**
NOx	**31.06***	**Unknown**	**Unknown**	**Unknown**	**Unknown**
VOC	**8.39***	**Unknown**	**Unknown**	**Unknown**	**Unknown**
PM10	**0**	**Unknown**	**Unknown**	**Unknown**	**Unknown**

Source Document: *** All sources are covered under State of Texas standard exemptions; therefore, they are not permitted.**

5d. For your base, determine the total FY1993 level of emissions (tons/yr) for CO, NOx, VOC, PM10 for the general sources listed. For all data provide a list of the sources and show your calculations. Use known emissions data, or emissions derived from use of state methodologies, or identify other sources used. "Other Mobile" sources include such items as ground support equipment.

	Emissions Sources (Tons/Year)				
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	**8.819***	**Unknown**	**Unknown**	**Unknown**	**Unknown**
NOx	**38.328***	**Unknown**	**Unknown**	**Unknown**	**Unknown**
VOC	**31.088***	**Unknown**	**Unknown**	**Unknown**	**Unknown**
PM10	**27.538***	**Unknown**	**Unknown**	**Unknown**	**Unknown**

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	Emission Sources (Tons/Year)				
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	N/A	N/A	N/A	N/A	0
NOx	N/A	N/A	N/A	N/A	0
VOC	N/A	N/A	N/A	N/A	0
PM10	N/A	N/A	N/A	N/A	0

Source Document: **All sources are covered under State of Texas standard exemptions; therefore, they are not permitted.**

5d. For your base, determine the total FY1993 level of emissions (tons/yr) for CO, NOx, VOC, PM10 for the general sources listed. For all data provide a list of the sources and show your calculations. Use known emissions data, or emissions derived from use of state methodologies, or identify other sources used. "Other Mobile" sources include such items as ground support equipment.

	Emissions Sources (Tons/Year)				
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	N/A	N/A	N/A	N/A	0
NOx	N/A	N/A	N/A	N/A	0
VOC	N/A	N/A	N/A	N/A	0
PM10	N/A	N/A	N/A	N/A	0

Source Document: **All sources are covered under State of Texas standard exemptions; therefore, they are not permitted.**

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5e. Provide estimated increases/decreases in air emissions (Tons/Year of CO, NOx, VOC, PM10) expected within the next six years (1995-2001). Either from previous BRAC realignments and/or previously planned downsizing shown in the Presidents FY1997 budget. Explain.

An increase if a possible merger of air emissions inventories between NASCORPC and its tenant Corpus Christi Army Depot (CCAD). CCAD is providing its own BRAC Data Call information. Increases with a new corrosion control hangar in FY 97 cannot be determined at this time.

5f. Are there any critical air quality regions (i.e. non-attainment areas, national parks, etc.) within 100 miles of the base?

None, designated by the Clean Air Act.

5g. Have any base operations/mission/functions (i.e.: training, R&D, ship movement, aircraft movement, military operations, support functions, vehicle trips per day, etc.) been restricted or delayed due to air quality considerations. Explain the reason for the restriction and the "fix" implemented or planned to correct.

No

5h. Does your base have Emission Reduction Credits (ERCs) or is it subject to any emission offset requirements? If yes, provide details of the sources affected and conditions of the ERCs and offsets. Is there any potential for getting ERCs?

No

5e. Provide estimated increases/decreases in air emissions (Tons/Year of CO, NOx, VOC, PM10) expected within the next six years (1995-2001). Either from previous BRAC realignments and/or previously planned downsizing shown in the Presidents FY1997 budget. Explain.

No known changes before 2001. Impact of potential mission changes cannot be determined at this time.

5f. Are there any critical air quality regions (i.e. non-attainment areas, national parks, etc.) within 100 miles of the base?

None

5g. Have any base operations/mission/functions (i.e.: training, R&D, ship movement, aircraft movement, military operations, support functions, vehicle trips per day, etc.) been restricted or delayed due to air quality considerations. Explain the reason for the restriction and the "fix" implemented or planned to correct.

No

5h. Does your base have Emission Reduction Credits (ERCs) or is it subject to any emission offset requirements? If yes, provide details of the sources affected and conditions of the ERCs and offsets. Is there any potential for getting ERCs?

No

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6. ENVIRONMENTAL COMPLIANCE

6a. Identify compliance costs, currently known or estimated that are required for permits or other actions required to bring existing practices into compliance with appropriate regulations. Do not include Installation Restoration costs that are covered in Section 7. For the last two columns provide the combined total for those two FY's.

Program	Survey Com-pleted?	Costs in $K to correct deficiencies					
		FY94	FY95	FY96	FY97	FY98-99	FY00-01
Air	Yes	0	0	125	150	299	100
Hazardous Waste	Yes	160	154	150	75	0	0
Safe Drinking Water Act	Yes	0	0	0	0	0	0
PCBs*	Yes	15	0	0	0	0	0
Other (non-PCB) Toxic Substance Control Act	No	0	0	0	0	0	0
Lead Based Paint	No	0	0	0	0	0	0
Radon	Yes	0	0	0	0	0	0
Clean Water Act	Yes	0	0	0	0	0	0
Solid Waste	Yes	0	0	0	0	0	0
Oil Pollution Act	Yes	0	0	0	0	0	0
USTs	Yes	0	29	0	0	0	0
Other**	No	0	0	60	0	0	0
Total	-	175	183	335	225	299	100

*** Survey is dated and many transformers were not tested as part of survey.**
****Wetlands surveyed** by NASCORPC COF

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6. ENVIRONMENTAL COMPLIANCE

6a. Identify compliance costs, currently known or estimated that are required for permits or other actions required to bring existing practices into compliance with appropriate regulations. Do not include Installation Restoration costs that are covered in Section 7 or recurring costs included in question 6c. For the last two columns provide the two year totals for those FY's.

Program	Survey Com-pleted?	Costs in $K to correct deficiencies					
		FY1994	FY1995	FY1996	FY1997	FY98-99	FY00-01
Air	Yes	13	213	458	515	834	200
Hazardous Waste	Yes	270	595	970	1045	1960	735
Safe Drinking Water Act	Yes	10	10	10	10	20	20
PCBs	Yes*	15	15	15	15	30	30
Other (non-PCB) Toxic Substance Control Act	No	0	0	0	0	0	0
Lead Based Paint	Yes	10	100	200	200	400	400
Radon	Yes	0	0	0	0	0	0
Clean Water Act	Yes	74	222	272	222	524	524
Solid Waste	Yes	0	0	0	0	0	0
Oil Pollution Act	Yes	10	10	10	10	20	20
USTs	Yes	0	0	0	0	0	0
Other	-	213	213	413	218	426	436
Total	-	615	1378	2348	2235	4214	2365

*** Survey is dated and many transformers were not tested as part of survey.**

Provide a separate list of compliance projects in progress or required, with associated cost and estimated start/completion date.

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6. ENVIRONMENTAL COMPLIANCE

6a. Identify compliance costs, currently known or estimated that are required for permits or other actions required to bring existing practices into compliance with appropriate regulations. Do not include Installation Restoration costs that are covered in Section

7. For the last two columns provide the combined total for those two FY's.

Program	Survey Com-pleted?	Costs in $K to correct deficiencies					
		FY94	FY95	FY96	FY97	FY98-99	FY00-01
Air*	Yes	53	112 ~~863~~	538 ~~1288~~	615 ~~1363~~	1799 ~~2547~~	1163 ~~1913~~
Hazardous Waste	Yes	421	1080	1500	1575	3160	3015
Safe Drinking Water Act	Yes	20	50	70	70	150	150
PCBs**	Yes	15	75	5	5	10	10
Other (non-PCB) Toxic Substance Control Act	No	0	0	0	0	0	0
Lead Based Paint	No	10	100	200	200	400	400
Radon	Yes	0	0	0	0	0	0
Clean Water Act	Yes	74	222	5722	222	524	524
Solid Waste	Yes	0	0	0	0	5000	0
Oil Pollution Act	Yes	10	10	10	10	20	20
USTs	Yes	50	50	50	50	100	100
Other	-	213	213	413	5718	426	436
Total	-	866	1913 ~~2663~~	8508 ~~9258~~	8463 ~~9213~~	11587 ~~12337~~	5818 ~~6568~~

*** Includes $750K per year for asbestos abatement projects for FY95 and beyond.**
**** Survey is dated and many transformers were not tested as part of survey.**

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Provide a separate list of compliance projects in progress or required, with associated cost and estimated start/completion date.

(SEE TAB A) HEARD one I N-4433 to 4 7 Jun

Most outyear project costs are attached and many are based upon POM-96 input. Many of the projects listed are included due to anticipated rule changes by the EPA. Labor costs are also included in the various program costs.

Section 6 Project Listing

Program	Project Name	Cost & FY
PCB's	PCB Transformer Replacement	$15K/FY94 75K/FY95
Lead Based Paint	Lead Removal Projects	$100/FY95 200K/FY96-01
Hazardous Waste	RECRA Facility Investigation	$100K-FY94 200K/FY95
Air	Accidental Release Plan for Air Pollutants	$75K/FY96

Note: See additional project listing attached.

6b. Does your base have structures containing asbestos? **Yes** What % of your base has been surveyed for asbestos? **100%** Are additional surveys planned? **No** What is the estimated cost to remediate asbestos ($K) **7,000**. Are asbestos survey costs based on encapsulation, removal or a combination of both? **Removal**

6c. Provide detailed cost of operational (environmental) compliance costs, with funding source.

Funding Source	FY92	FY93	FY94	FY95	FY96	FY97	FY98-99	FY00-01
O&MN	1012	746	866	1913	2958	2963	5837	5068
HA	0	0	0	750	750	750	1500	1500
PA	533	1493	325	600	100	0**	0**	0**
Other (specify) MILCON	0	0	0	0	5450*	5500*	5000*	0
TOTAL	1545	2239	1191	3263	9258	9213	12337	6568

*** FY96 = WWTP, FY97 = Corrosion Control Facility, FY98 = Solid Waste Facility**
**** A portion of the O&MN funds for these years may end up being PA funds.**

6d. Are there any compliance issues/requirements that have impacted operations and/or development plans at your base. **No**

Replaced w/ Amd 2 6 Jun 94

~~16~~ 15a

R

Provide a separate list of compliance projects in progress or required, with associated cost and estimated start/completion date.

Outyear project costs are attached and are based upon BAM-97.

Section 6 Project Listing

Program	Project Name	Cost & FY
Air	*	*
Hazardous Waste	*	*
PCBs	*	*
Other	*	*

***See attached pages.**

6b.
Does your base have structures containing asbestos?___**Yes**_____ What % of your base has been surveyed for asbestos?____**100%**_____ Are additional surveys planned? ____**No**_____ What is the estimated cost to remediate asbestos ($K) __**7,000**_____. Are asbestos survey costs based on encapsulation, removal or a combination of both? **Removal**

6c. Provide detailed cost of operational (environmental) compliance costs, with funding source.

Funding Source	**FY92**	**FY93**	**FY94**	**FY95**	**FY96**	**FY97**	**FY98-99**	**FY00-01**
O&MN	**746**	**1013**	**945**	**1292**	**1217**	**1243**	**2839**	**3001**
HA	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
PA	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Other (specify) **MILCON**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
TOTAL	**746**	**1013**	**945**	**1292**	**1217**	**1243**	**2839**	**3001**

6d. Are there any compliance issues/requirements that have impacted operations and/or development plans at your base. **NO**

R

NASCORPRC BRAC DATA CALL 33 REVISION #2
TABLE 6A COMPLIANCE PROJECTS LISTING

PCR NUMBER	TITLE	BRAC PROGRAM	TYPE	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	BAM97 PROJ GROUP	EPA CLASS
** AIR													
WR594051	INSTALL CARBON ADSORPTION UNITS ON PAINT BOOTHS	AIR	E4RX	0	0	0	0	250	0	0	0	1015	2
WR594053	INSTALL CHARCOAL ADSORBER, SOLVENT DEGREASING OPS	AIR	E4RX	0	0	0	0	25	0	0	0	1999	2
WR594054	INSTALL CHARCOAL ADSORBER, HELMET POURING OPERATIONS	AIR	E4RX	0	0	25	0	0	0	0	0	1999	2
WR594055	INSTALL PHASE 1 VAPOR RECOVERY SYSTEM FOR USTS	AIR	E4RX	0	0	0	0	0	24	25	0	1031	2
WR594056	PREPARE TITLE V INVENTORY	AIR	E4RX	0	0	100	0	0	0	75	0	1033	2
WR594057	TITLE V PERMITS	AIR	E4FX	0	0	0	150	0	0	0	0	1035	2
** Subtotal **				0	0	125	150	275	24	100	0		
** HAZARDOUS WASTE													
WR594091	RFI CORRECTIVE ACTION (OLD SWMUS)	HAZARDOUS WASTE	E4RX	160	150	150	75	0	0	0	0	2039	1
WR594117	REMEDIATE JOHNS GARAGE	HAZARDOUS WASTE	E4RX	0	4	0	0	0	0	0	0	7005	2
** Subtotal **				160	154	150	75	0	0	0	0		
** OTHER													
WR594088	WETLANDS SURVEY	OTHER	E4FX	0	0	60	0	0	0	0	0	12999	2
** Subtotal **				0	0	60	0	0	0	0	0		

16a R(8 NOV 94)

R

NASCORPRC BRAC DATA CALL 33 REVISION #2
TABLE 6A COMPLIANCE PROJECTS LISTING

PCR NUMBER	TITLE	BRAC PROGRAM	TYPE	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	BAM97 PROJ GROUP	EPA CLASS
** PCBS													
T055B	PCB TRANSFORMER/OIL SWITCH REPLACEMENT	PCBS	P/A	15	0	0	0	0	0	0	0	0	2
** Subtotal **				15	0	0	0	0	0	0	0		
** USTS													
WR594065	UST CLOSURE/CHANGE IN SERVICE	USTS	E4RX	0	25	0	0	0	0	0	0	7007	2
WR594116	INSTALL SPILL/OVERFLOW PREVENTION EQUIPMENT	USTS	E4RX	0	4	0	0	0	0	0	0	7012	2
** Subtotal **				0	29	0	0	0	0	0	0		
*** Total ***				175	183	335	225	275	24	100	0		

166 R (8 NOV 94)

6b.
Does your base have structures containing asbestos?___**Yes**____ What % of your base has been surveyed for asbestos?__**100%**_____ Are additional surveys planned? ____**No**_____ What is the estimated cost to remediate asbestos ($K) _**$7000K**_____. Are asbestos survey costs based on encapsulation, removal or a combination of both?

6c. Provide detailed cost of recurring operational (environmental) compliance costs, with funding source.

Funding Source	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997	FY98-99	FY00-01
O&MN								
HA	0	0	0	0	750	750	1500	1500
PA	0	0	0	0	0	0	0	0
Other O&MN (FT & FX Total)	1012	746	866	1913	2958	2963	5837	5068
Other: MILCON	0	0	0	0	5450*	5500**	0	0
TOTAL:	1012	746	866	1913	9158	9213	7337	6568

*** Domestic wastewater plant** **** Corrosion control facility**

6d. Are there any compliance issues/requirements that have impacted operations and/or development plans at your base.

No

Provide a separate list of compliance projects in progress or required, with associated cost and estimated start/completion date.

Most outyear project costs are attached and many are based upon POM-96 input. Many of the projects listed are included due to anticipated rule changes by the EPA. Labor costs are also included in the various program costs.

Section 6 Project Listing

Program	Project Name	Cost & FY
PCB's	**PCB Transformer Replacement**	**$15K/FY94 75K/FY95**
Lead Based Paint	**Lead Removal Projects**	**$100/FY95 200K/FY96-01**
Hazardous Waste	**RECRA Facility Investigation**	**$100K-FY94 200K/FY95** — DERA
Air	**Accidental Release Plan for Air Pollutants**	**$75K/FY96**

Note: See additional project listing attached.

6b.
Does your base have structures containing asbestos?___**Yes**_____ What % of your base has been surveyed for asbestos?____**100%**_____ Are additional surveys planned? ____**No**_____ What is the estimated cost to remediate asbestos ($K) __**7,000**_____. Are asbestos survey costs based on encapsulation, removal or a combination of both? **Removal**

6c. Provide detailed cost of operational (environmental) compliance costs, with funding source.

Funding Source	FY92	FY93	FY94	FY95	FY96	FY97	FY98-99	FY00-01
O&MN	1012	746	866	1913	2958	2963	5837	5068
HA	0	0	0	750	750	750	1500	1500
PA	533	1493	325	600	100	0**	0**	0**
Other (specify) **MILCON**	0	0	0	0	5450*	5500*	5000*	0
TOTAL	1545	2239	1191	3263	9258	9213	12337	6568

*** FY96 = WWTP, FY97 = Corrosion Control Facility, FY98 = Solid Waste Facility**
**** A portion of the O&MN funds for these years may end up being PA funds.**

6d. Are there any compliance issues/requirements that have impacted operations and/or development plans at your base.
Yes, the amount of labor required to comply with environmental laws and regulations is continuing to increase and detracting from other mission related operations.

Reviewed by [illegible]

7. INSTALLATION RESTORATION

7a.

Does your base have any sites that are contaminated with hazardous substances or petroleum products?	**YES**
Is your base an NPL site or proposed NPL site?	**No***

*** But hazard ranking score as provided to EPA will be high enough to make us an NPL Site.**

7b. Provide the following information about your Installation Restoration (IR) program. Project list may be provided in separate table format. Note: List only projects eligible for funding under the Defense Environmental Restoration Account (DERA). Do not include UST compliance projects properly listed in section VI.

Site # or name	Type site [1]	Groundwater Contaminated?	Extends off base?	Drinking Water Source?	Cost to Complete ($M)/Est. Compl. Date	Status[2]/Comments
#1	RCRA	Yes	No	No	$2M/1999	RD
#3	RCRA	Yes	No	No	$2M/1999	RD
#4	RCRA	Yes	No	No	$1M/1999	RD
Bldg 8	RCRA	Yes	No	No	$1M/2010	RI

CONTINUED ON ATTACHMENT

[1] Type site: CERCLA, 'RCRA corrective action (CA), UST or other (explain)

[2] Status = PA, SI, RI, RD, RA, long term monitoring, etc.

ATTACHMENT TO AMENDMENT 2 OF DATA CALL 33

Site # or Name	Type Site	Groundwater Contaminated?	Extends Off Base?	Drinking Water Source	Cost to Complete($)/ Estimated Da	Status/ Comments
SWMU 9	RCRA	No	No	No	Completed	TNRCC Review
SWMU 10	RCRA	Don't Know	No	No	Unknown/1996	Remedial Investigation
SWMU 183	RCRA	Don't Know	No	No	Unknown/1996	Remedial Investigation
SWMU 196	NRC	No	No	No	Completed	TNRCC Review
SWMU 244	RCRA	Don't Know	No	No	Unknown/1999	Part of Bldg 8 Study
SWMU 245	RCRA	Don't Know	No	No	Unknown/1999	Part of Bldg 8 Study
SWMU 247	RCRA	Don't Know	No	No	Unknown/1999	Part of Bldg 8 Study
SWMUs 257-259 & 264,265	RCRA	Don't Know	No	No	Unknown/1996	Remedial Investigation
SWMU 274	RCRA	Don't Know	No	No	Unknown/1996	Remedial Investigation
SWMUs 310-315	RCRA	Don't Know	No	No	Unknown/1996	Remedial Investigation
SWMUs 334-348	RCRA	Don't Know	No	No	Unknown/1996	Remedial Investigation
SWMU 357	UST	Don't Know	No	No	Unknown/1996	Remedial Investigation
Fuel Farm 216	UST	Yes	Don't Know	No	Unknown/1997	Remedial Investigation

7. INSTALLATION RESTORATION

7a.

Does your base have any sites that are contaminated with hazardous substances or petroleum products?	**YES**
Is your base an NPL site or proposed NPL site?	**No***

*** But hazard ranking score as provided to EPA will be high enough to make us an NPL site.** (i.e., future NPL). CNET N4412, 6-1-94

7b. Provide the following information about your Installation Restoration (IR) program. Project list may be provided in separate table format. Note: List only projects eligible for funding under the Defense Environmental Restoration Account (DERA). Do not include UST compliance projects properly listed in section VI.

Site # or name	Type site[1]	Groundwater Contaminated?	Extends off base?	Drinking Water Source?	Cost to Complete ($M)/Est. Compl. Date	Status[2]/Comments
1	**RCRA**	**Yes**	**No**	**No**	**2M/1999**	**RD**
3	**RCRA**	**Yes**	**No**	**No**	**2M/1999**	**RD**
4	**RCRA**	**Yes**	**No**	**No**	**1M/1999**	**RD**
Bldg 8	**RCRD**	**Yes**	**No**	**No**	**1M/2010**	**RI**

[1] Type site: CERCLA, RCRA corrective action (CA), UST or other (explain)

[2] Status = PA, SI, RI, RD, RA, long term monitoring, etc.

Replace w/ Attach 2 Return CNET

7c. Have any contamination sites been identified for which there is no recognized/accepted remediation process available? List. **No**

7d.

Is there a groundwater treatment system in place?	**NO**
Is there a groundwater treatment system planned?	**YES**

State scope and expected length of pump and treat operation.

A pump and treat system for Building 8 is proposed for 1994. It is only a trial operation that will operate for a short period of time unless it proves successful.

7e.

Has a RCRA Facilities Assessment been performed for your base?	**YES**

7f. Does your base operate any "Conforming Storage" facilities for handling **hazardous materials**? If YES, describe facility, capacity, restrictions, and permit conditions.

No, however we do have a project planned for FY94 that is DLA funded to upgrade a DRMO building to meet hazardous material storage requirements. We also expect to have a new HAZMART (Bldg 27) that will serve to issue all station activities except CCAD. The HAZMART begins operations 23 May 94. HAZMART has adequate capacity, no permit restrictions, etc. for issue of new materials.

7g. Does your base operate any "Conforming Storage" facilities for handling **hazardous waste**? If YES, describe facility, capacity, restrictions, and permit conditions.

Yes. Building 259 is permitted and operational. Building 1820 is permitted, but has not yet been placed into operation due to problems with epoxy coating on the floor. Facility, capacity, restrictions and permit conditions are outlined in the attached permit.

7h. Is your base responsible for any non-appropriated fund facilities (exchange, gas station) that require cleanup? If so, describe facility/location and cleanup required/status.

Yes, approximately one year ago an exchange gas station contractor overfilled the tanks causing a release. Monitor wells are in place and the bulk of contamination was removed. The contractor has been responsive in taking those actions needed to comply with the state rules and regulations. Current requirement is for semi-annual monitoring of the wells.

7i.

Do the results of any radiological surveys conducted indicate limitations on future land use? Explain below.	**No**

7j. Have any base operations or development plans been restricted due to Installation Restoration considerations?

No

7k. List any other hazardous waste treatment or disposal facilities not included in question 7b. above. Include capacity, restrictions and permit conditions.

None

8. LAND / AIR / WATER USE

8a. List the acreage of each real estate component controlled or managed by your base (e.g., Main Base - 1,200 acres, Outlying Field - 200 acres, Remote Range - 1,000 acres, remote antenna site - 5 acres, Off-Base Housing Area - 25 acres).

Parcel Descriptor	Acres	Location
Main Air Station	2539.39	Corpus Christi, TX
NALF Waldron	921.15	Corpus Christi, TX
NALF Cabaniss	931.43	Corpus Christi, TX
Peary Place	44.14	Corpus Christi, TX
Part of Island A	.90	Corpus Christi, TX
Part of Islands B & C	44.54	Corpus Christi, TX
Tex-Mex RR	82.35	Corpus Christi, TX

8b. Provide the acreage of the land use categories listed in the table below:

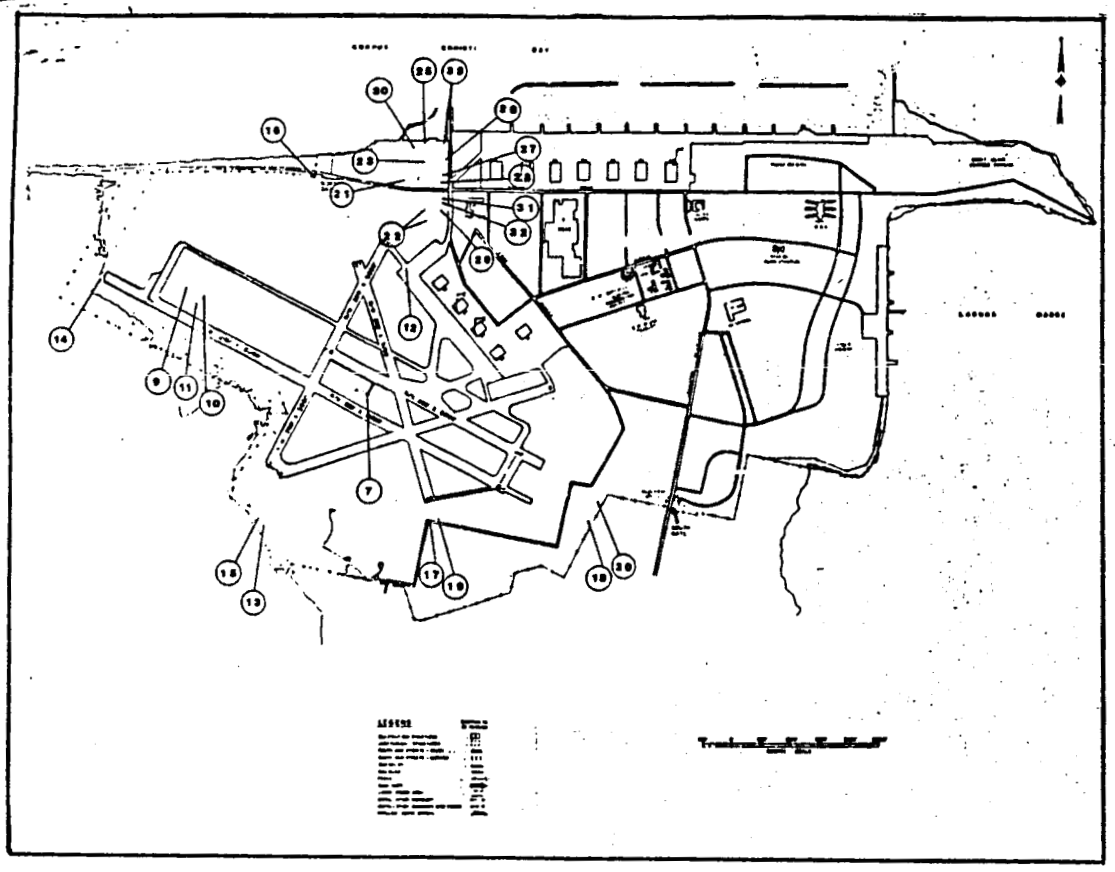
LAND USE CATEGORY		ACRES
Total Developed: (administration, operational, housing, recreational, training, etc.)		**NASCORPC: 2109**
Total Undeveloped (areas that are left in their natural state but are under specific environmental development constraints, i.e.: wetlands, endangered species, etc.)		**Wetlands: 127**
		All Others: 251
Total Undeveloped land considered to be without development constraints, but which may have operational/man caused constraints (i.e.: HERO, HERF, HERP, ESQD, AICUZ, etc.) TOTAL		**2054 total - from breakout below**
Total Undeveloped land considered to be without development constraints		**2033**
Total Off-base lands held for easements/lease for specific purposes **Outgrants for easements & avigation**		**Avigation: 61.33** **Easements: 374.37**
Breakout of undeveloped, restricted areas. Some restricted areas may overlap: **NOTE Dimmit Island impact area = 103 acres**	ESQD	**408**
	HERF	**0**
	HERP	**0**
	HERO	**431**
	AICUZ	**1102**
	Airfield Safety Criteria	**762**
	Other **Red Label**	**113**

8c. How many acres on your base (includes off base sites) are dedicated for training purposes (e.g., vehicular, earth moving, mobilization)? This does not include buildings or interior small arms ranges used for training purposes. **115.8 acres, CCN 179-50**

8d. What is the date of your last AICUZ update? **See below** Are any waivers of airfield safety criteria in effect on your base? **YES. See sheets 20a - 20c.** Summarize the conditions of the waivers below.
NASCORPC, Dec 1980; NALF Waldron, Dec 1980; NALF Cabaniss, Oct 1988

NOTE: Total all: from NASCORPC, NALF Waldron, NALF Cabaniss and Peary Place is 4736 acres.

22 MAR 89



Naval Air Station
Corpus Christi, Texas

Airfield Obstructions

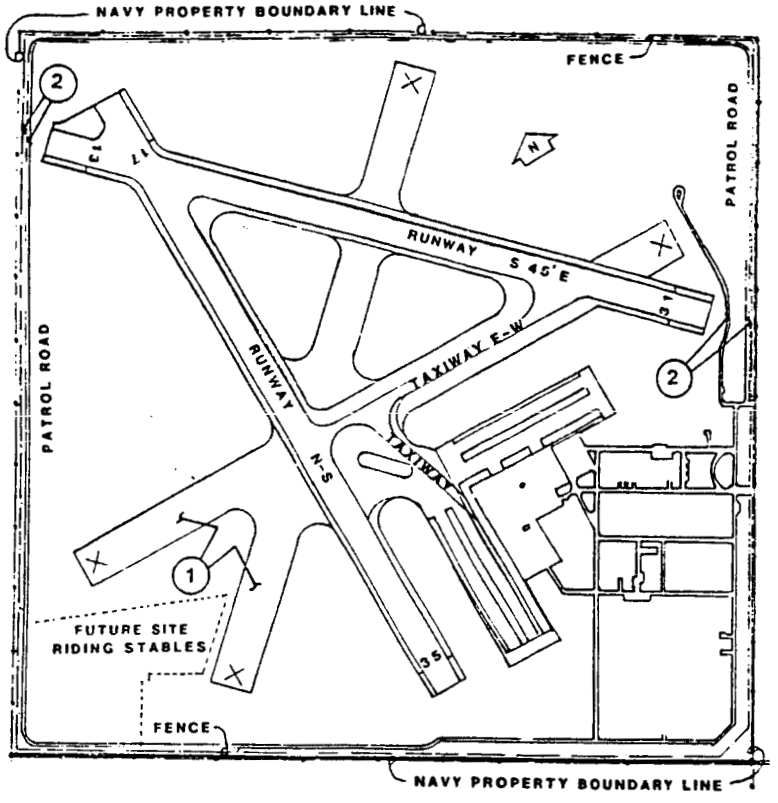
TABLE IV-6

AIRFIELD WAIVERS

NUMBER	WAIVER NUMBER	DESCRIPTION
1	CC-1	Longitudinal Grade
2	CC-2	Max. rate of clearance
3	CC-3	Grade of first 3000 ft from R/W
4	CC-5	R/W 13R-31L repair
5	CC-6	Airfield Safety Clearance Criteria
6	CC-7	Aircraft arresting gear lighting and marking
7	CC-9	AN/FPN-52 Radar
8	CC-10	Isolating Switches, Violating Objects 124, 141, 145, 146
9	CC-11a	Detector, Violating Object 10
10	CC-11a2	Projector, Violating Object 14
11	CC-11a3	Projector, Violating Object 15
12	CC-11b	Section of Aircraft Parking Apron
13	CC-11c	Drainage Ditches, 157, 158, 159, 163
14	CC-12a1	Patrol Road, Violating Object 2
15	CC-12a2	Patrol Road, Violating Object 38
16	CC-12a3	Patrol Road, Violating Object 41
17	CC-12a4	Patrol Road, Violating Object 118
18	CC-12a5	Patrol Road, Violating Object 139
~~19~~	~~CC-12b1~~	~~Railroad Tracks, Violating Object 117~~
~~20~~	~~CC-12b2~~	~~Railroad Tracks, Violating Object 122~~
21	CC-12c	Ocean Drive, Violating Object 161
22	CC-14a	Underground Water Storage Tanks, W4 and W7
~~23~~	~~CC-14b~~	~~Aviation Gasoline Storage Area, Nov 216~~
24	CC-14c	Public Works Transformer Vault No. 16
25	CC-14d	Building 15a
~~26~~	~~CC-14e~~	~~Building 85, Marine Corps Reserve Center~~
~~27~~	~~CC-14f~~	~~Building 84, Naval Reserve Center~~
28	CC-14g	Public Works Above Ground Steam Lines
29	CC-14h	Building 168
30	CC-14i	Senior Officers Quarters K
31	CC-14j	Public Works Transformer Vault No. 163
32	CC-14k	Public Works Water Pump Station W-1
33	CC-15(t)	Fuel Pump Stations Numbers 162 and 324

20a (22 Aug 94)

00216



Legend

(1) WAIVER WAL-1

(2) WAIVER WAL-2

NALF WALDRON
Airfield Obstructions

WAIVER	DESCRIPTION
WAL-1	To permit closing Runways 4-22 and 8-26 (CNAVANTRA ltr NE1 Ser 5450 of 25 February 1959).
WAL-2	To permit the following patrol roads and security fences to remain:

a. Violating object (Patrol Road) located 180 ft. outboard the Runway 31 end.

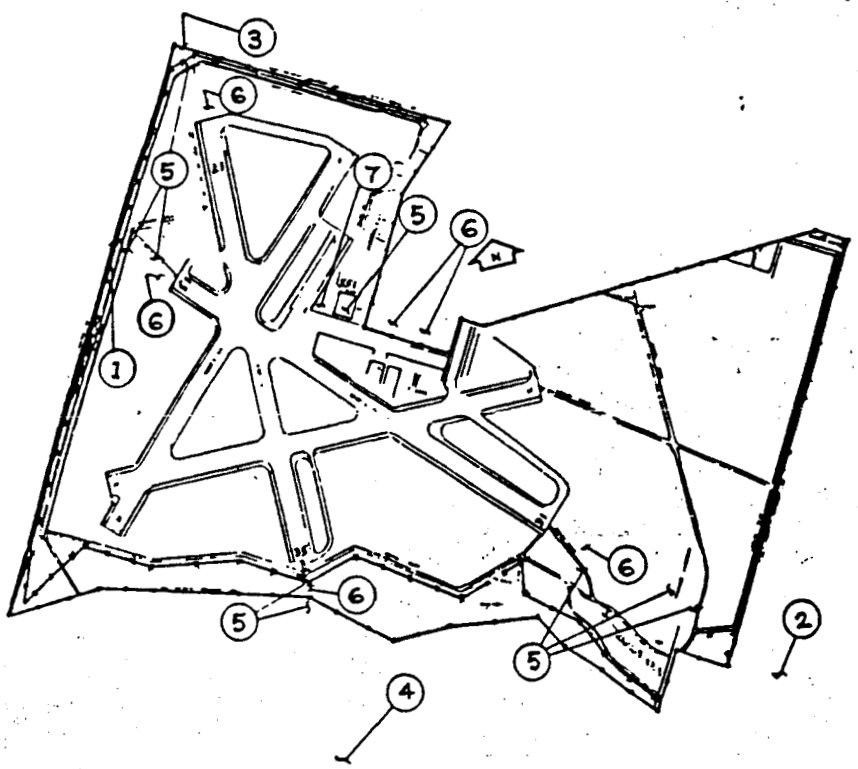
b. Violating object (Patrol Road) located 705 ft. outboard the Runway 13 end.

c. Violating object (Perimeter Fence) seven feet high, located 200 ft. outboard Runway 31 end.

d. Violating object (Perimeter Fence) seven feet high, located 770 ft. outboard the Runway 13 end.

206 (22 Aug)

00216



Legend

1. WAIVER CAB-5
2. WAIVER CAB-6
3. WAIVER CAB-7
4. WAIVER CAB-8
5. WAIVER CAB-9
6. WAIVER CAB-10
7. WAIVER CAB-11

NALF CABANISS
Airfield Obstructions

WAIVER	DESCRIPTION
CAB-5	To permit existing R/W 13 threshold to remain at a distance of 826 ft. from State Highway 286.
CAB-6	To permit existing R/W 31 threshold to remain at a distance of 3,600 ft. from Highway 43.
CAB-7	To permit existing R/W 17 threshold to remain at a distance of 1,279 ft. from State Highway 357.
CAB-8	To permit existing R/W 35 threshold to remain at a distance of 3,075 ft. from Highway 43.
CAB-9	To permit the following existing violations of airfield flight safety to remain: a. Crash and patrol roads in the approach zones to Runways 13, 17, 31 and 35. b. Existence of drainage ditches as follows: (1) Violating object located closer than 1,000 ft. from Runway 31 end. (2) Violating object located 650 ft. outboard the Runway 13 end. (3) Oso Creek located outside U.S. Navy property approximately 500 ft. outboard the Runway 35 end. c. Perimeter fencing (7 ft. high) as follows: (1) Violating object located 310 ft. outboard the Runway 35 end. (2) Violating object located 1,240 ft. outboard the Runway 17 end. (3) Violating object located 780 ft. outboard the Runway 13 end. d. Hangar 551, located approximately 1,730 ft. inboard the Runway 13 end and 560 ft. left of the runway centerline.
CAB-10	To permit the following existing violations of airfield flight safety to remain: a. Hangar 552- located 2200 ft. inboard the Runway 13 end and 750 ft. east of the Runway 13-31 centerline. The hangar protrudes into the 7:1 transitional surface of Runway 13-31. b. Hangar 553 - located 2,675 ft. inboard the Runway 13 end and 900 ft. east of the Runway 13-31 centerline. The hangar protrudes into the 7:1 transitional surface of Runway 13-31. c. The Runway 13, 31, 17, and 35 ends not having the required Type I, II and III Clear Zones.
CAB-11	To permit a control tower to be sited 785 ft. east of the Runway 17-35 centerline and 585 ft. east of the Runway 13-31 centerline. Location of tower violates the 7:1 transitional surfaces of Runway 17-35 and Runway 13-31 by 4 ft. and 33 ft. respectively.

20C (22 AUG 94)

00216

8b. Provide the acreage of the land use categories listed in the table below:

LAND USE CATEGORY		ACRES
Total Developed: (administration, operational, housing, recreational, training, etc.) **From total lands: 4617.60c**		**NASCORPC: 2204.1**
Total Undeveloped (areas that are left in their natural state but are under specific environmental development constraints, i.e.: wetlands, endangered species, etc.)		**Wetlands: 127**
		All Others: 1097
Total Undeveloped land considered to be without development constraints, but which may have operational/man caused constraints (i.e.: HERO, HERF, HERP, ESQD, AICUZ, etc.) TOTAL		**1249.43 Totals from breakout below**
Total Undeveloped land considered to be without development constraints		**0**
Total Off-base lands held for easements/lease for specific purposes		**Avigation: 61.33 Easements: 374.37**
Breakout of undeveloped, restricted areas. Some restricted areas may overlap: **NOTE Dimmit Island (impact area)=103 ac**	ESQD	**408.1**
	HERF	
	HERP	
	HERO	**431.0**
	AICUZ	**Total acquired 297.73 To be acquired 43.5**
	Airfield Safety Criteria	
	Other Red Label	**112.6**

8c. How many acres on your base (includes off base sites) are dedicated for training purposes (e.g., vehicular, earth moving, mobilization)? This does not include buildings or interior small arms ranges used for training purposes. 2.78 CCN 179-50

See below

8d. What is the date of your last AICUZ update? _____/_____/_____ Are any waivers of airfield safety criteria in effect on your base? Y/N Summarize the conditions of the waivers below. **NASCORPC Dec 1980**
Waldron Dec 1980
Cabaniss Oct 1988

NOTE: Noise survey updated in 1990 was based upon incorrect data.

Revised pg

8e. List the off-base land use *types* (e.g, residential, industrial, agricultural) and *acreage* within Noise Zones 2 & 3 generated by your flight operations and whether it is compatible/incompatible with AICUZ guidelines on land use.

Acreage/Location/ID	Zones 2 or 3	Land Use	Compatible/ Incompatible
258.00/NASCORPC/N00216	2	Residential	Incompatible
86.00/NASCORPC/N00216	2	Industrial	Compatible
39.66/NASCORPC/N00216	3	Residential	Incompatible
92.57/NASCORPC/N00216	3	Industrial	80% Compatible 20% Incompatible

Acreage/Location/ID	Zones 2 or 3	Land Use	Compatible/ Incompatible
228.45/NALF WALDRON/N00216	2	Residential	95% Compatible 05% Incompatible
4,295.05/NALF WALDRON/N00216	2	Agricultural	Compatible
45.69/NAlf WALDRON/N00216	2	Commercial	Compatible
10.13/NALF WALDRON/N00216	3	Residential	Compatible
192.62/NALF WALDRON/N00216	3	Agricultural	Compatible

Acreage/Location/ID	Zones 2 or 3	Land Use	Compatible/ Incompatible
543.11/NALF CABANISS/N00216	2	Residential	20% Compatible 80% Incompatible
4,073.32/NALF CABANISS/N00216	2	Agricultural	Compatible
814.66/NAlf CABANISS/N00216	2	Industrial	Compatible
64.79/NALF CABANISS/N00216	3	Agricultural	Compatible
43.19/NALF CABANISS/N00216	3	Indusstrial	Compatible

8f. List the navigational channels and berthing areas controlled by your base which require maintenance dredging? Include the frequency, volume, current project depth, and costs of the maintenance requirement. **None**

Navigational Channels/ Berthing Areas	Location / Description	Maintenance Dredging Requirement			
		Frequency	Volume (MCY)	Current Project Depth (FT)	Cost ($M)

8e. List the off-base land use *types* (e.g, residential, industrial, agricultural) and *acreage* within Noise Zones 2 & 3 generated by your flight operations and whether it is compatible/incompatible with AICUZ guidelines on land use.

Acreage/Location/ID	Zones 2 or 3	Land Use	Compatible/ Incompatible
812.99/NASCORPC/N00216	**2**	**Over Water**	**Compatible**
35.12/NASCORPC/N00216	**2**	**Agricultural**	**Compatible**
59.91/NASCORPC/N00216	**2**	**Residential**	**Incompatible**
55.78/NASCORPC/N00216	**2**	**Industrial**	**Compatible**

(See Attachments)

8f. List the navigational channels and berthing areas controlled by your base which require maintenance dredging? Include the frequency, volume, current project depth, and costs of the maintenance requirement. **None**

Navigational Channels/ Berthing Areas	Location / Description	Maintenance Dredging Requirement			
		Frequency	Volume (MCY)	Current Project Depth (FT)	Cost ($M)

8g. Summarize planned projects through FY 1997 requiring **new channel or berthing area** dredged depths, include location, volume and depth.

No planned projects for NASCORPC though options remain open for COMINEWARCOM. Refer to Ingleside Naval Station data call and COMINEWARCOM EIS.

8h.

Are there available **designated dredge disposal areas** for maintenance dredging material? List location, remaining capacity, and future limitations.	Reference enclosure (11) Yes (see ↑)
Are there available **designated dredge disposal areas** for new dredge material? List location, remaining capacity, and future limitations. **1 site = 336 ac Trans American Natural Gas Corporation site (U.S. Navy 1986)**	**Yes, COMINWARCOM SITE: EIS 1955 USGS Navy upland disposal 336ac**
Are the dredged materials considered contaminated? List known contaminants.	**Not Known**

8.i. List any requirements or constraints resulting from consistency with State Coastal Zone Management Plans. **The Texas Coastal Management Program is under review as pending legislation becoming law around February 1995. The General Land Office has recommended that the Navy enter into a Memorandum of Agreement (via Chief of Naval Air Training Command - Regional Environmental Coordinator) for all projects effecting the Texas Costal Zone. If no MOA is achieved projects will require consistency determinations within 90 days of enactment (all undertakings) similar and parallel to the NEPA.**

8j. Describe any **non-point source pollution problems affecting water quality** ,e.g.: coastal erosion. **Coastal erosion is most extreme along the western perimeter of NASCORPC along the Oso Bay shoreline (plus or minus 10,000 ft). The erosion is caused mainly by wave action not overland flow therefore, may not be considered non-point source.**

8k.

If the base has a cooperative agreement with the US Fish and Wildlife Service and/or the State Fish and Game Department for conducting a hunting and fishing program, does the agreement or these resources constrain either current or future operations or activities? Explain the nature and extent of restrictions.	**NO**

8l. List any other areas on your base which are indicated as protected or preserved habitat other than threatened/endangered species that have been listed in Section 1. List the species, whether or not treated, and the acres protected/preserved. **The current management issue is with the Federally listed Candidate Species, Category 2, Texas Maritime Pocket Gopher, <u>Geomys Personatus Maritimus</u> found in our golf course areas, housing areas and AICUZ areas. A new LEGACY award will study issue.**

9. WRAPUP

9a. Are there **existing or potential environmental showstoppers** that have affected or will affect the accomplishment of the installation mission that have not been covered in the previous 8 questions?

No

9b. Are there any **other environmental permits** required for base operations, include any relating to industrial operations.

No

9c. Describe any **other environmental or encroachment restrictions** on base property not covered in the previous 8 sections.

None

9d. List **any future/proposed laws/regulations or any proposed laws/regulations** which will c constrain base operations or development plans in any way. Explain.

None

9. WRAPUP

9a. Are there **existing or potential environmental showstoppers** that have affected or will affect the accomplishment of the installation mission that have not been covered in the previous 8 questions?

Yes. An Environmental Impact Statement (EIS) for the Mine Warfare Center of Excellence is in preparation and there is a remote possibility that the public may find it unacceptable. Another showstopper is the 216 fuel farm site. Per a 1986 consent decree the station was required to recover free floating product. Within the last year, the state has expressed dissatisfaction with the recovery effort and is proposing to renegotiate the consent decree. A change such as this will require additional staffing and thus impact the ability to perform the station mission.

9b. Are there any <u>other</u> **environmental permits** required for base operations, include any relating to industrial operations.

No

9c. Describe any **other environmental or encroachment restrictions** on base property not covered in the previous 8 sections.

None

9d. List **any future/proposed laws/regulations or any proposed laws/regulations** which will c constrain base operations or development plans in any way. Explain.

None, however increasing labor hours must be expended on the more comprehensive and complex environmental regulations to ensure compliance.

Replace w/ Appd 2
R Stenchen
CNET

Command: **NAS Corpus Christi**

Data Call Number Thirty Three/Amendments One and Two

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

R. K. U. KIHUNE
NAME

Signature

CNET
Title

8 JUN 1994
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

P. W. DRONNON
NAME

Signature

ACTING
Title

6/24/94
Date

Encl (1)

This certification for UIC 00216 BRAC-95, Amendment Two pages 2, 13, 14, 15, and 16 and revision pages per CNET review pages 13, 14, 16 and 23 for Data call THIRTY THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

Date 06 JUN 94

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING (ACTING)
Title

Date 6 JUN 94

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

This certification for UIC 00216 BRAC-95, Data call THIRTY THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

20 MAY 94
Date

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING (ACTING)
Title

24 MAY 94
Date

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, Amendment Two pages 2, 13, 14, 15, and 16 and revision pages per CNET review pages 13, 14, 16 and 23 for Data call THIRTY THREE

K. G. BIXLER, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

Date 6/6/94

Naval Air Station, Corpus Christi
Activity

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, Data call THIRTY THREE

K. G. BIXLER, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

5-20-94
Date

Naval Air Station, Corpus Christi
Activity

PERMIT NO. HW-50038
ISW Reg. No. 30479
EPA ID NO. TX7170022787

TEXAS WATER COMMISSION
Stephen F. Austin State Office Building
Austin, Texas

PERMIT FOR INDUSTRIAL
SOLID WASTE MANAGEMENT SITE
issued under provisions of TEX.
HEALTH & SAFETY CODE ANN.
Chapter 361 (Vernon)

This permit supersedes and replaces Permit No. HW-50038 approved October 22, 1985.

Name of Permittee:	United States Department of the Navy Naval Air Station Corpus Christi, Texas 78419-5000
Site Owner:	United States Department of the Navy Naval Air Station Corpus Christi, Texas 78419-5000
Registered Agent for Service:	Captain B. L. Liner Commander Naval Air Station Corpus Christi, Texas 78419-3776
Classification of Site:	Class I Hazardous, Storage and Processing, On-Site.

The permittee is authorized to store and process wastes in accordance with the limitations, requirements, and other conditions set forth herein. This permit is granted subject to the rules of the Commission and other Orders of the Commission and laws of the State of Texas. Nothing in this permit exempts the permittee from compliance with the applicable rules and regulations of the Texas Air Control Board.

This permit, will be valid until canceled, amended or revoked by the Commission except that authorization to process or dispose of wastes shall expire at midnight, October 22, 1995.

All provisions in this permit stem from state and/or federal authority. Those provisions marked with an asterisk (*) stem from federal authority and will implement the applicable requirements of HSWA for which the Texas Water Commission is not authorized.

ISSUED DATE: AUG 25 1993

ATTEST: Laurie Lancaster

For the Commission

TWC-0080A (Rev. 01-03-92)

I. Size and Location of Facility

A. The facility is located on the north end of the Encinal Peninsula in the city of Corpus Christi, Nueces County, Texas. The facility is in the drainage area of Segments 2481 and 2485 of the Nueces Rio-Grande Coastal Basin (North Latitude 27°42'00", West Longitude 97°17'00").

B. The legal description of the facility is hereby made a part of this permit as "Attachment A." The hazardous waste management facility is delineated on "Attachment B."

II. Facility Units and Operations Authorized

A. Wastes Authorized:

The permittee is authorized to manage hazardous and industrial solid wastes which are described in Provisions II.A.1. and II.A.2., subject to the limitations provided herein and subject to the limitations or prohibitions of Provision II.A.4..

Wastes authorized for storage, processing and disposal are limited to those generated on-site at this facility and from any household source.

Hazardous wastes are limited to those within the Hazard Code Groups indicated below:

1. Hazard Code Groups:

x Ignitable (I)	x Acute Hazardous Waste (H)
x Toxic (T)	x Toxicity Characteristic Waste (E)
x Corrosive Waste (C)	x Reactive Waste (R)

2.

Waste Descriptions	TWC Waste Class	Hazard Codes
a. Acids and acid sludges	IH	E,C
b. Base Wastes	IH	E,C
c. Detergent Cleaning Wastes	IH	E,C
d. Antifreeze/Coolant	IH	E
e. Battery Electrolyte	IH	E,C

[II.A.2.]

f. Spent Batteries Alkaline/Lead Acid Nickel-Cadmium/Lithium Zinc-Carbon/Mercury	IH	C,E
g. Bead/Sandblasting Wastes	IH	E
h. Contaminated Fuel	IH	I
i. Oxidizers	IH	I,E
j. Fume Scrubber Cones	IH	E
k. Filter Press Cake	IH	T,E
l. Contaminated Containers	IH	I,T,C,E,R
m. Lab Packs	IH	I,T,C,H,E,R
n. Waste Oils and Cutting Fluids	IH	I,T,E
o. Paint Wastes	IH	I,T,E
p. Contaminated Rinse Water	IH	E
q. PCB Wastes	I	TSCA Regulated
r. Metal Plating Wastes	IH	T,E,R
s. Halogenated Solvents and Sludge Bottoms	IH	I,T,E
t. Non-halogenated Solvents and Sludge Bottoms	IH	I,T,E,R

3. Prior to managing any additional hazardous wastes with chemical and physical characteristics similar to those authorized by Provision II.A.2. for storage or processing the permittee shall:

   a. Notify the TWC of the additional waste(s);

   b. Provide a characterization of the waste demonstrating its similarity to other specifically authorized wastes;

   c. Submit, upon request of the Executive Director, such information as may be reasonably required to enable the Executive Director to ascertain if the proposed new

[II.A.3.c]

wastes fits a description of authorized waste as specified in Provision II.A.2.; and

d. Receive written authorization of the Executive Director.

4. Prohibited Wastes or Waste Limitations:

a. Explosive material as defined by the Department of Transportation (DOT) under 49 CFR Part 173;

b. Radioactive or nuclear waste material (i.e., waste material which emits ionizing radiation spontaneously);

c. Wastes F020, F021, F022, F023, F026, and F027 identified by EPA in 40 CFR Part 261.31; and

d. Any other wastes not specifically authorized by Provision II.A.

B. Facility Units and Functions Authorized:

The permittee is authorized to operate the following facility units for storage and processing of hazardous wastes and is authorized for the following functions, subject to the limitations contained herein. All hazardous waste management activities not otherwise exempted from permitting requirements shall be confined to the authorized facility units described in Provision II.B.1. through II.B.4. All authorized facility units shall hereinafter be identified as numbered below (e.g., "TWC Permit Unit No. 1").

1. Container Storage Area, enclosed, maximum free liquid capacity 17,200 gallons, identified in the permit application submittals referenced in Provision III.A as the CCAD conforming storage area, Building 257, for storage and processing of the wastes authorized by Provision II.A

2. not used

3. Container Storage Area, enclosed, maximum free liquid capacity 46,200 gallons, identified in the permit application submittals referenced in Provision III.A as the DRMO conforming storage area, for storage and processing of the wastes authorized by Provision II.A

4. Container Storage Area, enclosed, maximum free liquid capacity 74,500 gallons, identified in the permit application submittals referenced in Provision III.A as Building 1820, for storage and processing of the wastes authorized by Provision II.A

[II.]

C. Facility Changes:

The facility units and operational methods authorized are limited to those described herein and by the permit application submittals referenced in Provision III.A and related plans and specification which are hereby incorporated by reference and made a part of this permit.

1. Prior to construction or operation of this facility in a manner which differs from the manner described in the permit application submittals referenced in Provision III.A, or the limitations, terms or conditions of this permit, the permittee is required to:

   a. Notify the Executive Director and submit plans and specifications for the proposed changes including a rationale for the necessity of the proposed changes; and

   b. Receive written approval of the Executive Director for such changes, if the Executive Director determines that a permit amendment or modification is not required by TWC Rules.

2. Any proposed facility changes, addition of units, or expansion in capacity which are not addressed by the terms and conditions of this permit must be authorized in accordance with TWC amendment or modification rules.

D. Authorization to Operate Facility Units:

The permittee shall not store, process, or dispose of solid waste in any new facility unit or modified facility unit (e.g., replacement unit or retrofitted unit, if such becomes authorized under this permit) until the requirements of Provision V.I have been satisfied.

III. FACILITY DESIGN, CONSTRUCTION, AND OPERATION

A. General Design, Construction, and Certification Requirements

1. Facility design, construction, and operational methods are limited to and must comply with the terms and conditions of this permit and TWC Rules, and must be in accordance with the plans and specifications for design, construction and operation approved herein. All plans and specifications included in the application for the permit approved October 22, 1985 and in the permit amendment application submittals dated March 5, 1992; November 4, 1992; December 23, 1992, and April 14, 1993 are approved, subject to the terms and conditions of this permit and any other orders of the Commission.

[III.A.]

2. Where any apparent conflict exists between the plans and specifications for design, construction, and operation approved by this permit and the terms and conditions of this permit, the permittee shall comply with the provisions of this permit.

3. The entire waste management facility shall be designed, constructed, operated, maintained, and managed to prevent washout of any hazardous waste and to prevent inundation of and discharges from the areas surrounding the facility units authorized by Provision II.B.. At a minimum, the permittee shall maintain a drainage control system to prevent washout of any hazardous waste by a 24-hour rainfall event, 25-year return frequency, and a 100-year return frequency flood.

4. All authorized facility units shall be clearly identified as numbered in Provision II.B. At a minimum, units authorized by Provision II.B shall have signs indicating "TWC PERMIT UNIT NO. (from Provision II.B.)".

B. General Operating Requirements:

1. All facility units, unit components, ancillary components, and all other equipment and structures authorized or required by this permit shall be maintained leak-free, and in good functional condition.

2. The permittee shall decontaminate and/or remove all spills, leaks, cleanup residues, and contaminated rainfall run-off immediately after the spillage and/or rainfall event and as necessary to prevent overflow of the collection system by the following methods(s):

   a. Removal to an authorized facility unit;

   b. Removal to an authorized off-site industrial solid waste management facility; and/or

   c. Discharge in accordance with a wastewater discharge permit.

3. The permittee shall immediately remove any spilled waste and waste residues and shall take all steps necessary to prevent surface-water and ground-water contamination as a result of any spills.

4. The permittee shall manage and dispose of all waste at the site in a manner which minimizes particulate emissions of

[III.B.4]

waste to the air.

5. The permittee shall post warning signs in both English and Spanish at each entrance to the active portions of the facility and at other locations, in sufficient numbers to be seen from any approach to this active portion. The signs shall be printed so that they may be clearly seen from a distance of at least 25 feet, and shall state "Danger - Unauthorized Personnel Keep Out" and "Peligro - Personas No Autorizados Manteganse Fuera."

6. The permittee shall ensure that any equipment or vehicles which have come in contact with waste in the units authorized by Provision II.B have been decontaminated prior to their movement into uncontaminated areas of the site property. At a minimum, all contaminated equipment shall be externally washed and contaminated vehicles shall have their undercarriages, tires, and tracks washed sufficiently to remove wastes residues and to prevent contamination of uncontaminated areas. All washwater generated shall be collected and handled in accordance with Provision III.B.2.

7. The annual facility activity report required by Provision V.E. shall be submitted to the TWC Central Office and the TWC District Office by January 25 of each year for the preceding year's activities. This annual report shall include, at a minimum, the following information:

   a. All information and records required by 31 TAC Sections 335.154 and 335.155;

   b. Volume of all wastes stored at the site;

   c. Summary of the major areas of construction and expansion of the facility during the year;

   d. Certification of waste minimization in accordance with Provision V.K; and

   e. A summary of quantity and type of waste managed in each unit utilized during the year.

8. The permittee shall ensure that all waste analyses utilized for waste identification or verification have been performed in accordance with methods specified in the current editions of "Test Methods for Chemical Analysis of Water and Wastes" or "Test Methods for the Evaluation of Solid Waste" (SW-846) or other methods which are recommended by the EPA. If no EPA recommended method exists, the permittee shall perform waste

[III.B.8]

analyses in accordance with methods listed in the Waste Analysis Plan or in accordance with other methods approved by the Executive Director. The permittee shall utilize only laboratories which follow a quality control/quality assurance program conforming to the program specified in the current edition of "Test Methods for the Evaluation of Solid Waste" (SW-846).

9. The permittee shall develop and use inspection forms which include all facility units and facility components to be inspected and a list of all items to be inspected at each unit and component. Any remedial actions taken in response to facility inspections and the date of the remediation shall be included on the inspection forms.

10. The permittee shall ensure that all facility personnel successfully complete a program of classroom instruction and on-the-job training which teaches them to perform their duties in a safe manner and which ensures the facility's compliance with this permit. The permittee shall comply with the personnel training requirements of 40 CFR 264.16.

11. The permittee shall maintain security of the facility. At a minimum, the permittee shall control access to the facility to discourage entry by unauthorized persons, livestock, and wildlife.

C. Storage and Processing Facility Unit Design and Construction Requirements:

1. The drainage control systems shall be constructed to collect spills and leaks from the container storage areas authorized by Provisions II.B. in such a manner as to:

a. Preclude the release from the system of any collected spills or leaks, except as provided by Provision III.B.2.. This requirement shall be met by, at a minimum, providing a base and sides which are free of cracks or gaps and are sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed;

b. Prevent run-on into the system from non-storage and processing areas; and

c. Have sufficient secondary containment capacity in each cell to contain either 10% of the total volume of the free liquids stored in each cell or the volume of the largest container containing free liquids in each cell,

[III.C.1.c]

whichever is greater.

2. The container storage areas authorized by Provisions II.B. shall be surrounded by curbing with a minimum height of six inches, and shall be enclosed.

D. Storage and Processing Facility Unit Operational Requirements:

1. Incompatible wastes shall not be commingled in any storage or processing facility unit unless the permittee complies with 40 CFR Part 264.17.

2. A storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby in other containers, open tanks or surface impoundments must be separated from the other materials or protected from them by means of a dike, berm, wall, or other device.

3. The units authorized by Provisions II.B. shall be operated in accordance with the provisions of the Flammable and Combustible Liquids Code (NFPA 30) of the National Fire Protection Association and 29 CFR Part 1910.106.

4. Signs shall be posted at entrances to the container storage facility units authorized by Provisions II.B. which are legible from a distance of at least 25 feet and state "DANGER - NO SMOKING" or which contain a pictorial description indicating that no smoking will be allowed and state "NO SMOKING".

5. Within 30 days of permit amendment issuance by the TWC, the Permittee shall comply with the following minimum requirements for the container storage area authorized by Provision II.B:

a. The permittee shall provide a minimum of 30" aisle spacing between double rows of drums or rows of pallets;

b. Drums of 55 Gallons or more capacity shall not be stacked more than 3 high; and

c. Pallets shall be used between layers of stacked drums.

IV. Closure and Post-closure

A. General Closure and Post-closure Requirements:

1. The permittee shall notify the Executive Director and the TWC District Office in writing at least 90 days prior to conducting any closure activities, including partial and full

[IV.A.1]

facility closures.

2. Facility closure shall commence:

   a. Upon direction of the Texas Water Commission or the Executive Director for violation of this permit, TWC Rules, or state statutes; or

   b. Upon suspension, cancellation, or revocation of the terms and conditions of this permit concerning the authorization to store or process waste materials; or

   c. Upon abandonment of the site; or

   e. When necessary to comply with the closure plan incorporated into this permit pursuant to Provision VII.C.

3. Within 60 days of completion of final closure of the facility, the permittee shall submit to the Executive Director certification in the form required by Provision V.I. that the facility has been closed in accordance with all applicable rules and the terms of this permit. The final facility closure certification shall be accompanied by all outstanding certifications and certification reports required by this permit.

4. Final closure of the facility is considered complete when all waste management units at the site have been closed in accordance with the terms of this permit.

5. For hazardous waste units closed as landfills and certified as closed before the issuance of this permit, the permittee shall submit to the Executive Director within 60 days of permit issuance documentation to demonstrate compliance with 40 CFR 264.116 (relating to survey plat) and 264.119 (relating to post-closure notices), unless such documentation has previously been submitted. For full facility closure and for hazardous waste units closed after permit issuance, the permittee shall submit documentation to demonstrate compliance with 40 CFR 264.116 and 264.119 within 60 days after certification of closure.

V. Standard Permit Conditions

The permittee has a duty to comply with the Standard Permit Conditions under 31 TAC §305.125. Moreover, the permittee has a duty to comply with the following permit conditions:

[V.]

A. In order to continue a permitted activity after the expiration date of the permit, the permittee shall submit a new permit application at least 180 days before the expiration date of the effective permit, unless permission for a later date has been granted by the Executive Director. Authorization to continue such activity will terminate upon the effective denial of said application.

B. The permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency order issued by the Commission.

C. The following details shall be included as information which must be reported orally within 24 hours pursuant to 31 TAC §305.125(9):

1. Information concerning release of any solid waste that may cause an endangerment to public drinking water supplies.

2. Any information of a release or discharge of solid waste, or of a fire or explosion from a facility unit, which could threaten the environment or human health outside the facility. The description of the occurrence and its cause shall include:

a. Name, address, and telephone number of the owner or operator;

b. Name, address, and telephone number of the facility;

c. Date, time, and type of incident;

d. Name and quantity of material(s) involved;

e. The extent of injuries, if any;

f. An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and

g. Estimated quantity and disposition of recovered material that resulted from the incident.

D. The Executive Director may waive the five-day written notice requirement as specified in 31 TAC §305.125(9) in favor of a written report submitted to the Commission within 15 days of the time the permittee becomes aware of the noncompliance or condition.

E. An annual report must be submitted covering the facility activities during the previous calendar year.

[V.]

F. Emissions from this facility must not cause or contribute to a condition of "air pollution" as defined in Section 382.003 of the TEX. HEALTH AND SAFETY CODE ANN. or violate Section 382.085 of the TEX. HEALTH AND SAFETY CODE ANN. (Vernon). If the Executive Director of the Texas Air Control Board determines that such a condition or violation occurs, the permittee shall implement additional abatement measures as necessary to control or prevent the condition or violation.

G. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

H. The permittee shall comply with 40 CFR 266.23(b).

I. Certification reports

Each certification required by this permit shall be based upon whatever tests, inspections, or measurements are necessary, in the judgement of the registered professional engineer (or other qualified professional as specified in this permit) supervising the construction, closure, and/or other activity, for such registered professional engineer to certify that the facility unit, unit component, and/or closure have been constructed, installed and/or performed in conformance with the design and construction specifications of this permit and in compliance with this permit. Part of each certification shall be a logically organized written certification report in a form acceptable to the Executive Director describing in detail the tests, inspections, and measurements done, their results, and all other bases for the certification. The certification shall be in the following form:

"This is to certify that the following activity (Specify activity, e.g., construction, installation, closure, etc., of an item) has been completed for the following item (Specify item, e.g., the particular facility, facility unit, unit component, subcomponent part, or ancillary component) in conformance with good engineering practices and the design and construction or closure specifications of Permit No. HW-50038:

(Add full description of each activity as it related to each item being certified including reference to all applicable permit provisions)."

1. The permittee shall notify the TWC District Office and the Executive Director by certified mail or hand delivery with a certification prepared and sealed by a professional engineer

[V.I.1]

with current registration pursuant to the Texas Engineering Practice Act (or other specified professional), and signed by the permittee. Required certification shall be in the form specified by Provision V.I.; and

2. The Executive Director may inspect the modified or newly constructed facility to find it is in compliance with the conditions of the permit; or if within 15 days of submission of the certification required by Provision V.I.1., the permittee has not received notice from the Executive Director of an intent to inspect, prior inspection is waived and the permittee may commence storage, processing, or disposal of solid waste.

J. Releases

1. The permittee shall notify the Executive Director of the Texas Water Commission and the Director of the Hazardous Waste Management Division of the U.S. EPA Region VI office of any release of hazardous waste or hazardous constituents that may have occurred from any solid waste management unit at the facility regardless of when the release occurred or may have occurred, and regardless of when waste was placed in any unit. This notification shall be made in writing within 15 days of the time the permittee determines that a release has occurred. Release of hazardous waste or hazardous waste constituents from any solid waste management unit regardless of when waste was placed in that unit or when the release occurred, will constitute grounds for: (1) a major permit amendment or modification pursuant to §361.089, Solid Waste Disposal Act, TEX. HEALTH AND SAFETY CODE ANN. Chapter 361 (Vernon), as necessary to incorporate into the permit appropriate corrective action; (2) the adoption by the Commission of a ground-water compliance plan; or (3) other action deemed necessary by the Commission. Pursuant to such permit amendment, ground-water compliance plan, or other order or action, the permittee shall then take timely corrective action for such releases.

2. Within [45] days of becoming aware of a solid waste management unit (SWMU) not previously addressed in the RCRA Facility Assessment (RFA), the permittee shall notify the Executive Director in writing. If it is determined by the permittee or the Executive Director that a release from this SWMU(s) has occurred, the Executive Director may modify the permit as necessary.

* 3. If a release appears to have caused off-site contamination, the Director of the Hazardous Waste Management Division of the

[V.J.3]

U.S. Environmental Protection Agency Region VI office must also be notified where notification of the Executive Director is required by this permit in all of the required activities specified in this provision.

K. Waste Minimization

The permittee shall certify annually by January 25 for the previous calendar year that the permittee:

1. has a program in place to reduce the volume and toxicity of all hazardous wastes which are generated by the permittee's facility operation to the degree determined by be economically practicable; and

2. that the proposed method of treatment, storage, or disposal is that practicable method currently available to the permittee which minimizes the present and future threat to human health and the environment. The waste minimization certification is to be included in the operating records;

L. The permittee is required to meet all performance standards in this permit, regardless of whether the permit also contains a specific design or other requirements relating to the performance standard.

* M. The permittee shall comply with the land disposal restrictions as found in 40 CFR 268 (Fed. Reg. November 7, 1986; June 4, 1987; July 8, 1987; August 17, 1988; June 23, 1989; June 1, 1990; and any subsequent promulgations). Requirements include modifying the permittee's waste analysis plan, as necessary, to include analysis to determine compliance with applicable treatment standards or prohibition levels, pursuant to 40 CFR 268.7(c) and 264.13(a).

The following Provision V.N is not a part of the TWC permit. It is included as part of the EPA permit, and is to be enforced only by the EPA.

* N. The Permittee must comply with the requirements of 40 CFR 264 Subpart AA and Subpart BB as Applicable. Within 90 days of the effective date of this modification, the Permittee shall submit to the Executive Director of the Hazardous Waste Management Division, EPA, Region VI, a report which must contain, at the minimum, the following information:

1. An equipment list which includes all of the information required under Part 264.1064(b)(1) for equipment that contains or contacts hazardous waste with organic concentrations of at least 10 percent by weight, and a list of all process vents associated with distillation, fractionation, thin-film evaporation, solvent extraction, or air or steam stripping

[V.N.1]

operations managing hazardous waste with organic concentrations of at least 10 percent by weight.

2. For the process vents listed above, the amount of emissions in lb/hr or kg/hr, and in lb/yr or kg/yr.

3. If emission in Provision V.N.2 of this section exceed emission levels cited in 40 CFR Part 264.1032(a)(1), the report must detail the manner in which compliance will be obtained, i.e., by the reduction of total organic emissions to the limits in Part 264.1032(a)(1), or reduction by means of a control device per Part 264.1032(a)(2).

4. If a closed vent system and control device is installed to comply with the requirements on Part 264.1032(a)(2), provide the following:

   a. An implementation schedule that includes dates by which the closed vent system and control devices will be installed and in operation (Part 264.1033(a)(2)).

   b. The type of control device under Part 264.1033 to be installed (e.g. vapor recovery, flare, etc...).

5. If the Permittee feels any of the requirements of permit Provision V.N or 40 CFR 264 Subparts AA and BB are not applicable to this facility, the Permittee must provide justification for this decision as part of the report.

VI. Incorporated Regulatory Requirements

A. The following Texas Water Commission rules are hereby made provisions and conditions of this permit. Issuance of this permit with incorporated rules in no way exempts the permittee from compliance with any other applicable state statute and/or Commission Rule.

1. 31 Texas Administrative Code (TAC) Chapter 335, Subchapter A;

2. 31 TAC Chapter 335, Subchapter B;

3. 31 TAC §335.152;

4. 31 TAC §335.153-335.155;

5. 31 TAC §335.166-335.167

6. 31 TAC §335.175-335.176

[VI.A.]

7. 31 TAC §335.177.

B. To the extent applicable to the activities authorized by this permit, the following provisions of 40 Code of Federal Regulations Part 264, adopted by reference by 31 TAC Section 335.152, are hereby made provisions and conditions of this permit;

1. Subpart B -- General Facility Standards;

2. Subpart C -- Preparedness and Prevention;

3. Subpart D -- Contingency Plan and Emergency Procedures

4. Subpart E -- Manifest System, Recordkeeping, and Reporting;

5. Subpart G -- Closure and Post-closure;

6. Subpart H -- Financial Requirements;

7. Subpart I -- Use and Management of Containers;

VII. INCORPORATED APPLICATION MATERIALS

The permittee shall maintain the following documents at the facility, and shall make them available for inspection by regulatory personnel.

A. Inspection Schedule

The permittee shall follow the inspection schedule developed in accordance with 40 CFR § 264.15 and submitted with the permit application submittals referenced in Provision III.A., which is hereby approved subject to the terms of this permit and any other orders of the Texas Water Commission. The inspection schedule is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the schedule shall become provisions and conditions of this permit upon the date of approval by the Commission.

B. Contingency Plan

The permittee shall follow the contingency plan developed in accordance with 40 CFR Part 264, Subpart D and submitted with the permit application submittals referenced in Provision III.A., which is hereby approved subject to the terms of this permit and any other orders of the Texas Water Commission. The contingency plan is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the plan shall become provisions and conditions of this permit upon the date of approval by the Commission.

[VII.]

C. Closure Plan

The permittee shall follow the closure plan developed in accordance with 40 CFR Part 264, Subpart G and submitted with the permit application submittals referenced in Provision III.A., which is hereby approved subject to the terms of this permit and any other orders of the Texas Water Commission. The closure plan is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the plans shall become provisions and conditions of the permit upon the date of approval by the Commission.

D. Waste Analysis Plan

The permittee shall follow the waste analysis plan developed in accordance with 40 CFR §264.13 and submitted in the permit application submittals referenced in Provision III.A., which is hereby approved subject to the terms of this permit and any other orders of the Texas Water Commission. The waste analysis plan is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the plan shall become provisions and conditions of this permit upon the date of approval by the Commission.

VIII. RCRA Facility Investigation

The permittee shall conduct a RCRA Facility Investigation (RFI) in order to determine whether hazardous constituents listed in 40 CFR 264, Appendix IX have been released into the environment from the following waste management units:

Unit #	Nomenclature
1	DPDO Landfill
2	CCAD Liquid Waste Disposal Area
4	Aircraft Fire Training Area
9	North Gate Disposal Area
10	Radioactive Waste Disposal Area
183	DRMO Storage Area
196	Hospital Low-Level Radioactive Waste Storage Bins
244	CCAD Plating Shop Floor Drains

[VIII]

245	CCAD Plating Shop Chrome Tunnel
247	CCAD Plating Shop Miscellaneous Tunnel
257-259 264,265	Manhole Drains from Various CCAD Shops
274	CCAD Storm Sewer
277-298	Bead Blasting Machine Waste Collection Pans
310-315	SSTP Sludge Drying Beds
334-348	Industrial Waste Water Treatment Plant
355	Low-Level Radioactive Waste Storage Building
357	Tank 305, Waste Solvent Tank

A. As part of the facility investigation, the permittee shall submit two copies of a workplan to the Executive Director of the TWC for approval and/or modification within 60 days from the issuance date of this permit by the TWC, which will address in detail the following items:

1. A plan view drawing of the facility at a scale of 1 inch equal to not more than 200 feet which clearly shows the following information:

   a. The locations, surface area and estimated depths of soil contamination associated with the RFI units.

   b. The locations of the RFI units.

   c. All structures adjacent to or nearby all RFI units such as concrete pads, gullies and roadways and

   d. the drawing date, its orientation, and scale.

2. Procedures for investigating all RFI units which, at a minimum, will include the following elements:

   a. methods of determining the areal extent of soil contamination; and

   b. a hydrogeologic evaluation of each unit area which reflects the following scope:

      (1) Performance of a hydrogeologic assessment of the

[VIII.A.2.b.(1)]

area to characterize the uppermost aquifer beneath the unit. The applicant must produce a soil boring program which determines the strata encountered, saturated intervals, and direction of ground-water flow. The workplan must specify the spacing, depth and locations of the boreholes. Samples from borings must be taken continuously from the surface to a depth of 20 feet and then at 5-foot intervals thereafter until ground water is reached. Samples shall be described as to color and soil type according to the Unified Soil Classification System, other visual characteristics such as structure, texture, mineral composition, moisture, etc., and any visual or olfactory evidence of contamination. The workplan should specify that soil borings be conducted with an Organic Vapor Analyzer (OVA) to augment the sense of smell. Sample description shall be performed by a qualified geologist or geotechnical engineer. Samples submitted for chemical analysis must be collected every 5 feet from the surface to the bottom of the borings and be analyzed in accordance with the United States Environmental Protection Agency publication SW-846, Test Methods for Evaluating Solid Waste, (USEPA SW-846) for all Appendix IX constituents, unless a shorter list can be justified. If a shorter list is proposed the justification for same must be presented in the workplan.

(2) Plans for installation of a ground-water monitoring system, based upon the results of the soil boring program, consisting of a minimum of one background well upgradient of the unit's perimeter. Exploratory bore holes which are developed may be converted to monitor wells if they are appropriately drilled and located. The plan should include procedures for determining the ground-water gradient. More than three down gradient perimeter well may be required to effectively sample the uppermost aquifer for hazardous constituents and additional background wells are recommended in order to provide an adequate sample population for determining if background values have been exceeded. Procedures for installation of monitoring wells which include detailed completion methods shall be submitted in the workplan. All of the upper flow

[VIII.A.2.b(2)]

zone shall be sampled by the wells. No monitor well screen length shall exceed 20 feet. Well construction and sampling equipment material shall be selected to avoid sample analysis interference. Monitor wells shall be logged during installation according to approved procedures which are outlined in the workplan. If existing wells are utilized as part of the ground-water monitoring system, the permittee shall provide sufficient boring data or conduct additional soil borings to provide the information which will characterize the wells;

(3) Well development methods. Methods of well development shall be described to ensure any fluids introduced by drilling are removed and samples are not influenced by drilling activities;

(4) Exact procedures for sampling and analysis of soil and water samples. The workplan shall include provisions for sample collection, sample preservation and shipment, analytical procedures, and chain of custody control. Statistical methods must be submitted that will be used to determine if a statistically significant increase over background has occurred for soil and water samples. The plan shall include a schedule for collecting samples from monitoring wills during 3 sampling events spaced at 2 month intervals and analyzed in accordance with USEPA SW-846 for all Appendix IX constituents, unless a shorter list can be justified. If a shorter list is proposed, the justification for same must be presented in the workplan.

(5) A preliminary soils and ground-water report to be submitted as part of the workplan. This preliminary report shall contain, at a minimum, the following information regarding the soils and ground-water:

(a) a site map having a one inch equals 50 feet scale, which depicts the locations of 1) all solid waste management units being investigated, 2) existing and proposed borings an monitor wells and 3) lines of proposed geologic cross-sections;

[VIII.A.2.b(5)]

(b) plans and schedule for submitting hydrogeologic information; and

(c) well construction diagram.

(6) Two copies of the Final Soils and Ground-water Report shall be submitted with the Facilities Investigation Report required by Provision VIII.D which contains at a minimum:

(a) contours of the ground-water surface based on measurements in piezometers and monitor wells, and apparent direction of ground-water flow;

(b) geologic cross-sections depicting the near surface stratigraphy;

(c) logs of all soil borings and monitoring wells; and

(d) results of analysis for soil and ground water.

3. The permittee may elect to certify that no wastes with Appendix IX constituents have been managed in an RFI unit or units in lieu of performing the investigation procedures noted in Provision VIII.A.2, provided that confirming data are submitted.

4. A time schedule including significant accomplishments for conducting the RCRA Facility Investigation activities not to exceed twelve months in duration.

5. A sampling plan including sampling locations, sampling methods, sampling equipment, sample handling procedures, analytical procedures, detection limits for each procedure, and sample quality assurance and quality control.

6. A safety plan describing the known hazards and risks identifying levels of protective clothing to be worn, describing decontamination procedures and identifying any special requirements or training needs.

B. The permittee shall immediately implement the approved work plan upon receipt of written approval.

C. The permittee shall notify the TWC District 12 office in Corpus Christi, Texas at least 10 days prior to any sampling activity in

[VIII.C]

order to afford District personnel the opportunity to observe sampling procedures and the splitting of samples.

D. The permittee shall submit two copies of the RCRA Facility Investigation Report to the Executive Director within 60 days of completion of the facility investigation. This report shall contain the results of all inspections, observations, evaluations and sampling events conducted as a part of the Facility Investigation along with all maps, drawings and cross-sections.

* E. If it is determined by the Commission that there has been a release to the environment of hazardous constituents listed in 40 CFR Part 264, Appendix IX, the permittee shall apply to the Executive Director of the TWC (and to the Director of the Hazardous Waste Management Division of the U. S. Environmental Protection Agency, Region VI, if the release resulted in off-site contamination) for an amendment to this permit in order to initiate further investigation and/or corrective action.

IX. Attachments

The following attachments are hereby made a part of this permit:

A. -- Legal Description

B. -- Facility Map

THE STATE OF TEXAS, |
|
COUNTY OF TRAVIS. |

WHEREAS, the United States of America has acquired all that certain tract or tracts of land lying and being situated in the County of Nueces, in the State of Texas, to be used as sites for Federal buildings, and with a view to occupying the same for such purposes, title to which land is vested in the United States of America by virtue of judgment on the declaration of taking in the condemnation proceeding entitled United States of America v. 2,049.85 acres of land in Nueces County, Texas, Eagle Lake Improvement Company, et al, No. 87, Civil, in the District Court of the United States for the Southern District of Texas, Corpus Christi Division, said judgment dated July 5, 1940;

The tracts of land being thus conveyed by said judgment being described as follows, to-wit:

FIRST TRACT: Beginning at an old 4-inch oak corner post or stake at the line of ordinary high water on the west shore of Laguna Madre, a shallow bay, the south shoreline corner of Lot 16 and east shoreline corner of Lot 21, in Section 57 of Flour Bluff & Encinal Farm & Garden Tracts, a subdivision, as shown by the map of said subdivision of record in the office of the County Clerk of Nueces County, Texas, in Map Book A, on pages 41, 42 and 43, for the south shoreline corner of this survey, whence a concrete cylinder with brass tablet, Monument No.6 on the Reference Line of the Intracoastal Waterway survey, Corpus Christi to Brownsville, Texas, U. S. Engineers Department, 1931-32, bears N. 82°40' 00" E. 611.17 feet; thence N. 60°36' 20" W. with the southwest boundary line of Lots 16 and 15 and northeast boundary line of Lots 21 and 22, in said Section 57, 1260.66 feet to a 1-inch iron bar set for the west corner of said Lot 15 and north corner of said Lot 22 and the south corner of Lot 14 and east corner of Lot 23, in said section 57, and for a corner of this survey; thence S. 29°02' 00" W. with the southeast boundary line of said Lot 23 and northwest boundary line of said Lot 22, 1320.00 feet to a 1-inch

iron bar set for the south corner of said lot 23 and west corner of said Lot 22 in Section 57 and the east corner of Lot 2 and north corner of Lot 3 in Section 56 of said Flour Bluff & Encinel Farm & Garden Tracts and for a south corner of this survey; Thence N. 60° 36' 20" W. with the southwest boundary line of said Section 57 and Northeast boundary line of said section 56, at 1290.03 feet, a 1-inch iron bar set in the southeast boundary line of a public road, 1320.03 feet to a 3/4-inch iron pipe, six inches deep, on the centerline of said public road, set for the west corner of said Section 57 and north corner of said section 56, and the south corner of Section 46 and east corner of Section 47 of said Flour Bluff & Encinal Farm & Garden Tracts and for a corner of this survey; Thence N. 60°58' 00" W. with the southwest boundary line of said Section 46 and northeast boundary line of said Section 47, at 30.00 feet, a 1-inch iron bar set in the northwest boundary line of said public road, 1980.00 feet to a 1-inch iron bar set for the west corner of Lot 27 and south corner of Lot 28 in said Section 46 and the north corner of Lot 6 and east corner of Lot 5 in said Section 47 and for a corner of this survey; thence S. 29°02' 00" W. with the southeast boundary line of said Lot 5, and northwest boundary line of said Lot 6, 1320.00 feet to a 1-inch iron bar set for the south corner of said Lot 5 and west corner of said Lot 6 and the north corner of Lot 11 and east corner of Lot 12 in said Section 47 and for a south corner of this survey; thence N. 60° 58' 00" W. with the southwest boundary line of Lots 5, 4, 3 and 2 and northeast boundary line of Lots 12, 13, 14 and 15 in said Section 47, at 660.00 feet, a 1-inch iron bar set for the common corner of said Lots 4, 5, 12 and 13, 2644.80 feet to a 1-inch iron bar set for the west corner of said Lot 2 and north corner of said Lot 15 and the south corner of Lot 1 and east corner of Lot 16 in said Section 47 and for a corner of this survey; thence S. 29°04' 30" W. with the southeast boundary line of said Lot 16 and northwest boundary line of said Lot 15, 1320.00 feet to a 1-inch iron bar set for the south corner of said Lot 16 and west corner of said Lot 15 and the east corner of Lot 17 and north corner of Lot 18 in said Section 47 and for a south corner of this survey; thence N. 60°58' 00" W. with the southwest boundary line of said Lot 16 and northeast boundary line of said Lot 17 in Section 47, and the southwest boundary line of Lots 7, 8 and 9 and northeast boundary line of Lots 15, 14 and 13 in Section 42, at 641.92 feet, a 1-inch iron bar set in the southeast boundary line of a public road; at 661.92 feet, a 3/4-inch iron pipe, six inches deep, on the centerline of said public road, set for a common corner of said Lots 16 and 17 in Section 47, and 7 and 15 in Section 42; at 681.92 feet, a 1-inch iron bar set in the northwest boundary line of said public road, 2641.92 feet to a 1-inch iron bar set in the southeast boundary line of Lot 10 in said Section 42 for the west corner of said Lot 9 and north corner of Lot 13 and for a corner of this survey, whence an old oak post on the shore of a salt water inlet

or bay known variously as Oso Bay, Oso Creek and Cayo del Oso, bears N. 60°58' 00" W. 483.00 feet; thence S. 29°05' 20" W. with the southeast boundary line of said Lot 10 and northwest boundary line of said Lot 13, 80.60 feet to a 1-inch iron bar, set at the line of ordinary high water on the shore of said Oso Bay, for a shoreline corner of this survey; thence in a general northerly direction along the ordinary high water line of Oso Bay until it converges with the ordinary high water line of Corpus Christi Bay; thence following the ordinary high water line of Corpus Christi Bay until it converges with the ordinary high water line of Laguna Madre; thence in a general southerly direction along the ordinary high water line of Laguna Madre to the point of beginning, containing an area of 2001.86 acres.

SECOND TRACT: Being a parcel of land known as Dimmit's Island situated near the convergence of the waters of Corpus Christi Bay with those of Laguna Madre, easterly from the First Tract hereinabove described and containing 36.58 acres, more or less.

THIRD TRACT: Being all of that parcel of land known as Indian Island which is situated in Laguna Madre and being easterly from the First Tract hereinabove described and containing 11.41 acres, more or less.

WHEREAS, the United States of America desires to acquire constitutional jurisdiction over said tracts or parcels of land above described, and has made application to the Governor of the State of Texas in writing to that effect, through its Acting Secretary of the Navy, accompanied with proper evidence of such acquisition, duly authenticated and recorded, containing or having annexed thereto accurate descriptions of said tracts or parcels of land by metes and bounds as hereinbefore set forth;

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That I, W. Lee O'Daniel, Governor of the State of Texas, in the name and in behalf of the State of Texas, do hereby cede to the United States of America exclusive jurisdiction over the said described tracts or parcels of land, to hold, use, occupy, own, possess and exercise jurisdiction over the same as long as the same remains the property of the United States of America;

PROVIDED, however, that this cession of jurisdiction

is made and granted upon the express condition that the State of Texas shall retain concurrent jurisdiction with the United States of America in and over every portion of the lands so ceded, so far that all process, civil or criminal, issuing under the authority of the State of Texas or any of the courts or judicial officers thereof, may be executed by the proper officers of the State, upon any person amenable to the same within the limits of the lands so ceded, in like manner and like effect as if no cession had taken place.

This Deed of Cession is made pursuant to Articles 5242, 5247 and 5248 of the Revised Civil Statutes of Texas, 1925, and in accordance therewith the United States of America shall be secure in its possession and enjoyment of all said lands, and said lands and all improvements thereon shall be exempt from any taxation under the authority of the State of Texas, so long as the same are held, owned, used, and occupied by the United States of America for any of the purposes expressed in the foregoing statutes and not otherwise.

IN TESTIMONY WHEREOF, I have hereunto signed my name as Governor of the State of Texas and have caused the Great Seal of the State of Texas to be hereunto affixed at the City of Austin, in the State of Texas, on the 12th day of December, A. D. 1940.

Governor of the State of
Texas.

ATTEST:

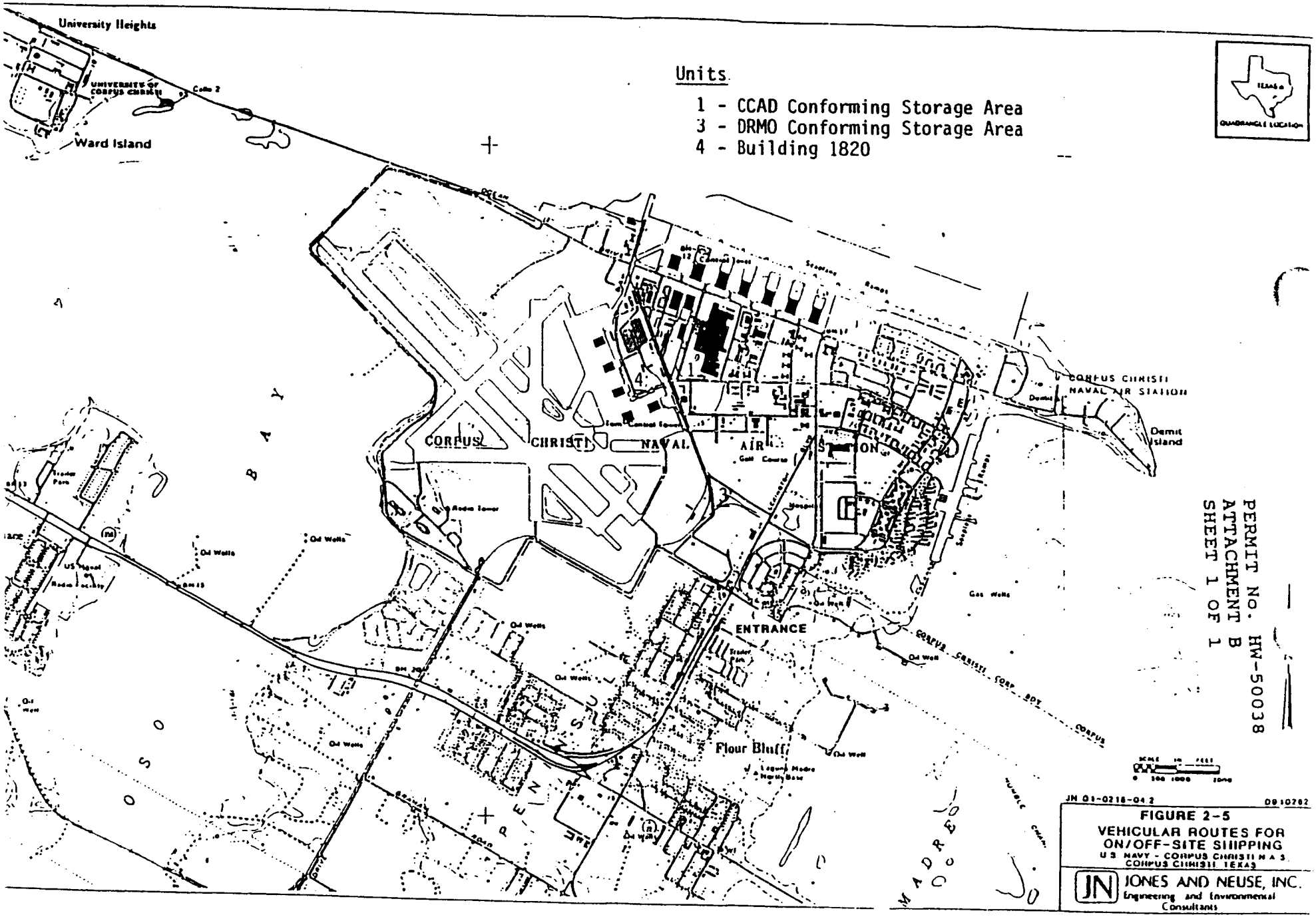
Secretary of State
Of the State of Texas.

THE STATE OF TEXAS, |
COUNTY OF TRAVIS. |

BEFORE ME, the undersigned authority, a Notary Public in and for the County of Travis, State of Texas, on this day personally appeared W. Lee O'Daniel, Governor of the State of Texas, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, on this the 24 day of December, A. D. 1940.

Willene Adkins
Notary Public, Travis County,
Texas.



PERMIT No. HW-50038
ATTACHMENT B
SHEET 1 OF 1

JN 01-0218-04 2 09 10 282

FIGURE 2-5
VEHICULAR ROUTES FOR ON/OFF-SITE SHIPPING
U S NAVY - CORPUS CHRISTI N A S
CORPUS CHRISTI TEXAS

JONES AND NEUSE, INC.
Engineering and Environmental Consultants

Texas Natural Resource Conservation Commission
Attn: Enforcement Support Unit, Watershed Management

REPORT OF PROGRESS OF CONSTRUCTION
OF WASTEWATER TREATMENT FACILITIES

_____
Today's Date

_____ WQ_____-_____
Name of Permittee Permit No.

Responsible Official: _____
Name

_____
Title

_____
Phone Number

Facilities are operational/are estimated to be operational

_____
Date (month/day/year)

The volume and phase in operation (Interim/Final) _____
(million gallons per day)

Operator of this facility will be _____
Name

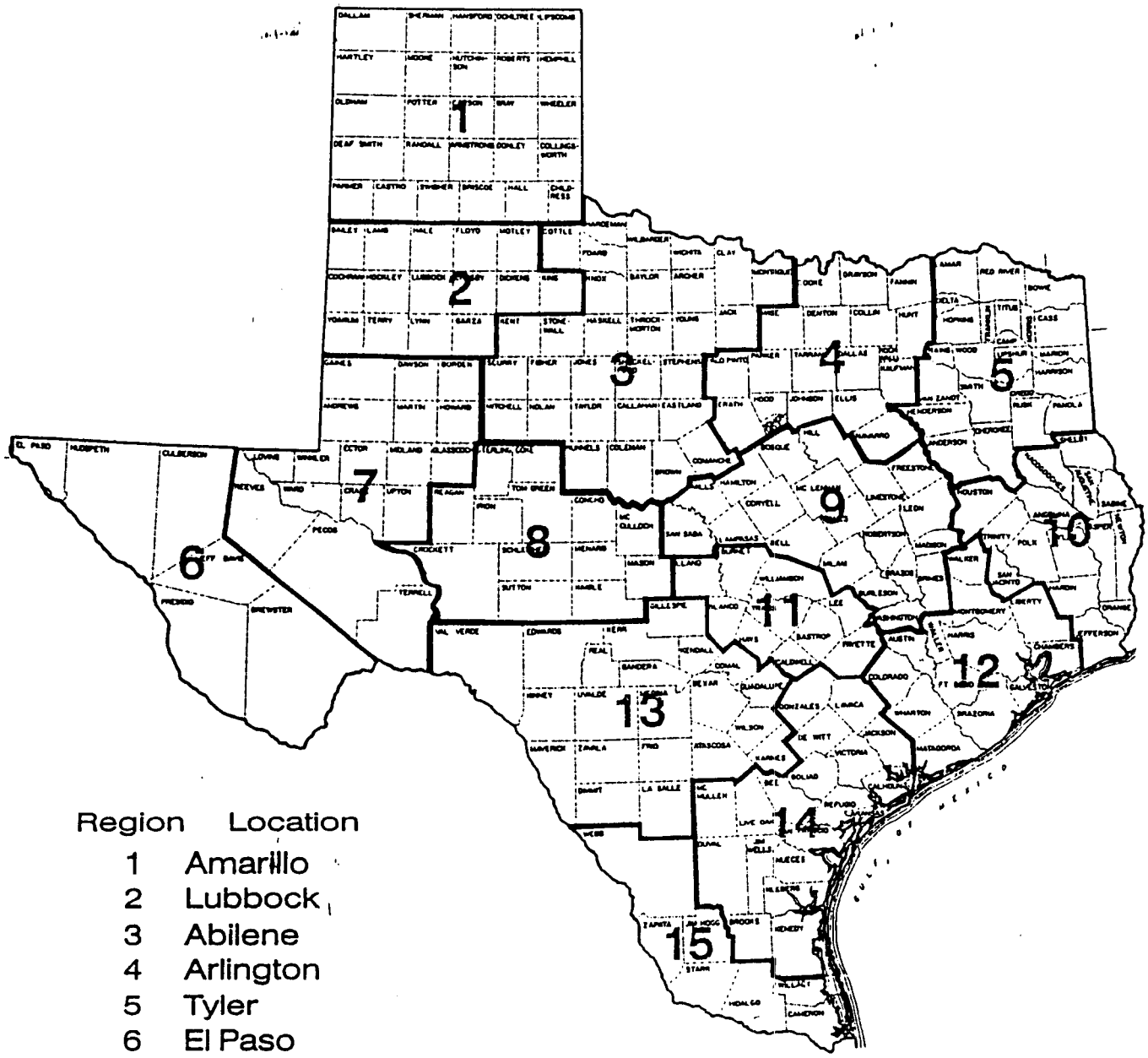
Class of Certificate_____ Social Security Number_____-_____-_____

Employed by (if applicable _____
(Name of Operations Company)

_____
Signature

TNRCC Enforcement Support Unit/Watershed Management/P.O. Box 13087/Austin, Texas 78711-3087/Area Code 512 463-8244

TNRCC REGIONAL STRUCTURE



Region	Location
1	Amarillo
2	Lubbock
3	Abilene
4	Arlington
5	Tyler
6	El Paso
7	Odessa
8	San Angelo
9	Waco
10	Beaumont
11	Austin
12	Houston
13	San Antonio
14	Corpus Christi
15	Harlingen

Subj: OFFBASE LAND USE BASED UPON NOISE ZONES 2 & 3 BASED ON AICUZ GUIDELINES

Ref: Phone conversation between NAVFAC Mr Allen Zusman, Code 150 and PWD NASCC,TX Mr Robert Carlson, Code 1831 on 11 May 94

Encl: (1) Average busy day LDN Contours for NAS, Corpus Christi
(2) Average busy day LDN Contours for NALF, Waldron
(2) Average busy day LDN Contours for NALF, Cabaniss

1. Per reference (a), the following information was obtained to validate the Noise Zones established during the June 1991, Aircraft Noise Survey for NAS, Corpus Christi plus the two NALF's (Waldron & Cabaniss). They are:

Zone 1: < - 65 LDN

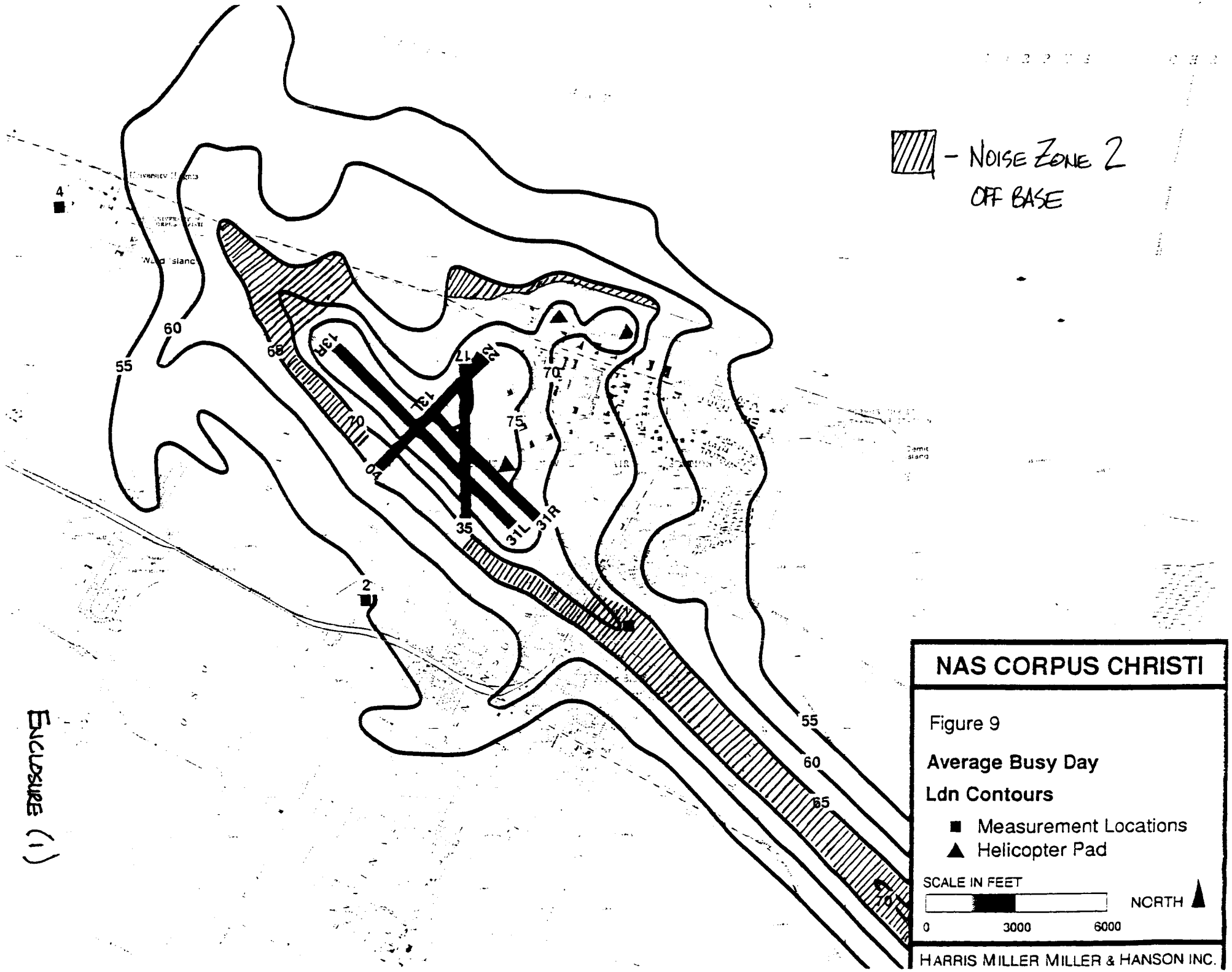
Zone 2: 65 - 75 LDN

Zone 3: 75 - > LDN

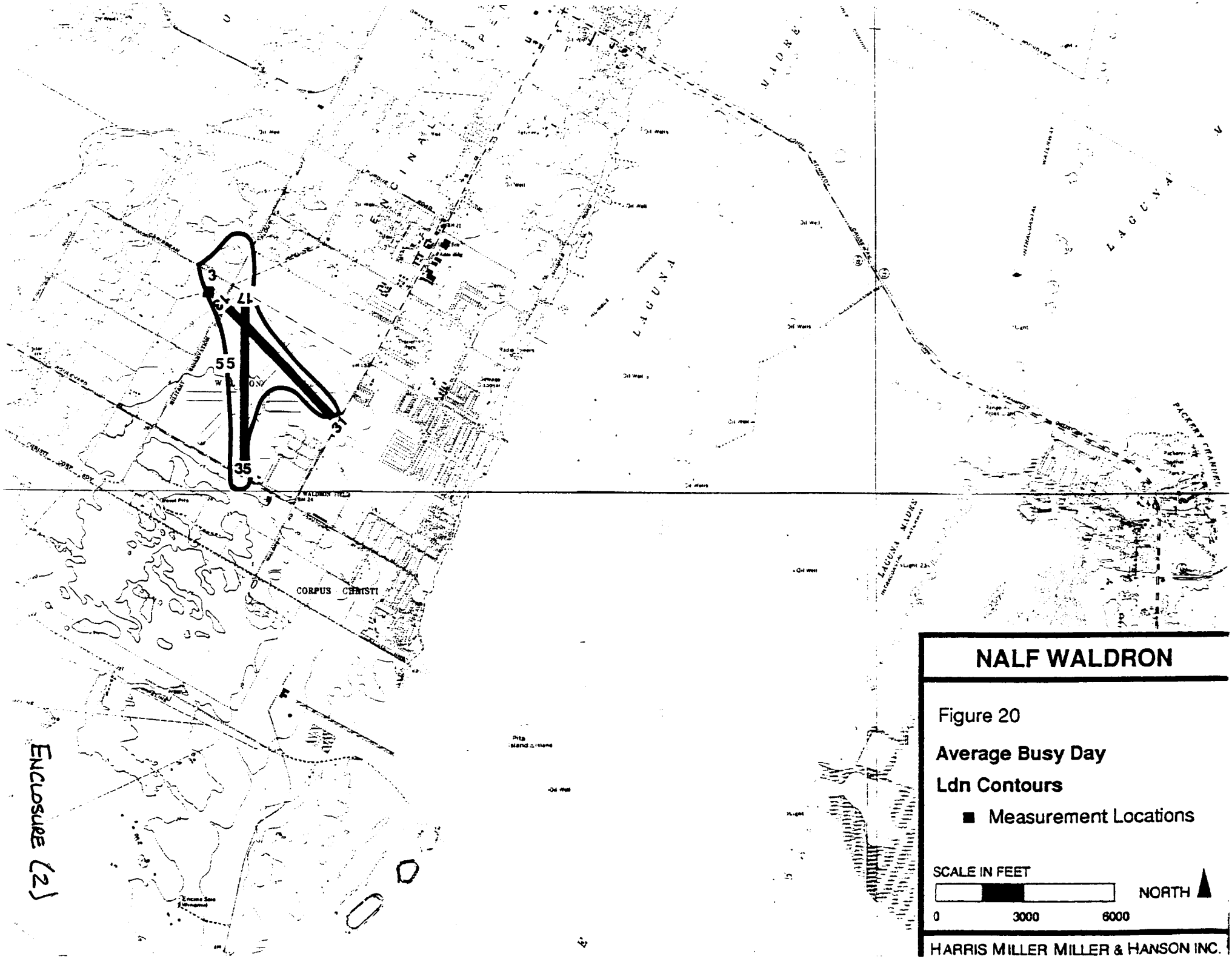
2. Based upon the fore mentioned information, only NAS, Corpus Christi has any offbase acreage that is either Zone 2 or Zone 3. A total of 963.8 acres is in Noise Zone 2 and 0 acres is in Noise Zone 3. The acreage is classified as follows:

812.99 Acres	-	Over Water	(Compatible)
35.12 Acres	-	Agricultural	(Compatible)
59.91 Acres	-	Residential	(Incompatible)
55.78 Acres	-	Industrial	(Compatible)

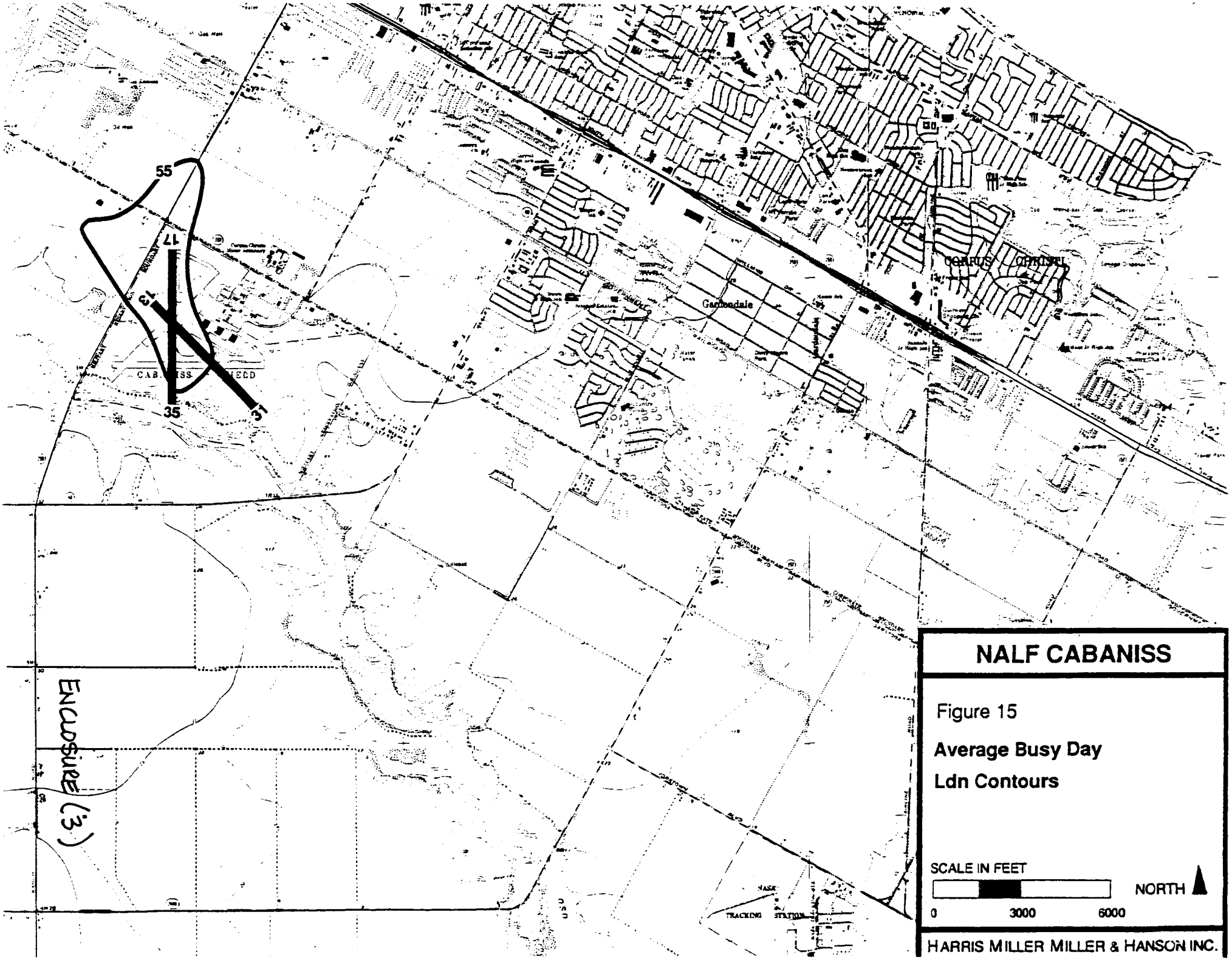
3. Enclosures (1) through (3) are provided to show the LDN patterns for the three airfields assigned to NAS, Corpus Christi.


NAS CORPUS CHRISTI
Figure 9
Average Busy Day
Ldn Contours
Measurement Locations
Helicopter Pad
SCALE IN FEET
0
3000
6000
NORTH
HARRIS MILLER MILLER & HANSON INC.
- NOISE ZONE 2
OFF BASE
55
60
65
70
75
4
2
13R
13L
17
35
31L
31R
04

ENCLOSURE (1)


3
17
55
35
37
CORPUS CHRISTI
LAGUNA MADRE
NALF WALDRON
Figure 20
Average Busy Day
Ldn Contours
Measurement Locations
SCALE IN FEET
0
3000
6000
NORTH
HARRIS MILLER MILLER & HANSON INC.

ENCLOSURE (2)


55
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Gardendale
CORPUS CHRISTI
NASA
TRACKING STATION
NALF CABANISS
Figure 15
Average Busy Day
Ldn Contours
SCALE IN FEET
0
3000
6000
NORTH
HARRIS MILLER MILLER & HANSON INC.

ENCLOSURE (3)

Table 2 - Federal and State Listed Threatened, Endangered and Candidate Species that Occur or Potentially Occur on the Naval Air Station, Corpus Christi, Texas. (Cont')

RESIDENCE STATUS[1]

C = Confirmed P = Possible M = Migrant R = Resident
L = Likely U = Unlikely V = Visitor

LEGAL STATUS[2]

E = Endangered
T/SA = Threatened due to Similarity of Appearance
T = Threatened
C-1 = Candidate Species for Federal Listing, Category 1
C-2 = Candidate Species for Federal Listing, Category 2

AGENCY[3]

USF&WS = U.S. Fish & Wildlife Service
TP&WD = Texas Parks & Wildlife Department

Table 2 - Federal and State Listed Threatened, Endangered and Candidate Species that Occur or Potentially Occur on the Naval Air Station, Corpus Christi, Texas.

SPECIES COMMON NAME	SCIENTIFIC NAME	RESIDENCE STATUS[1]	LEGAL STATUS[2] USF&WS[3]	TP&WD[3]
AMPHIBIANS				
Black-spotted Newt	(Notophthalmus meridionalis meridionalis)	PR	C-2	E
Sheep Frog	(Hypopachus variolosus)	PR		T
REPTILES				
American Alligator	(Alligator mississippiensis)	UR	T/SA	
Texas Tortoise	(Gopherus berlandieri)	UR		T
Green Turtle	(Chelonia mydas mydas)	PM	T	T
Atlantic Hawksbill	(Eretmochelys imbricata imbricata)	PM	E	E
Loggerhead Turtle	(Caretta caretta)	PM	T	E
Atlantic Ridley	(Lepidochelys kempi)	PM	E	E
Leatherback Turtle	(Dermochelys coriacea)	PM	E	E
Texas Horned Lizard	(Phrynosoma cornutum)	PR	C-2	T
Texas Indigo Snake	(Drymarchon corais erebennus)	PR		T
Texas Scarlet Snake	(Cemophora coccinea lineri)	PR		T
BIRDS				
Brown Pelican	(Pelecanus occidentalis)	CV	E	E
White-faced Ibis	(Plegadis chihi)	LV	C-2	T
Wood Stork	(Mycteria americana)	LV		T
Fulvous Whistling Duck	(Dendrocygna bicolor)	PR	C-2	
White-tailed Hawk	(Buteo albicaudatus)	CR		T
Ferruginous Hawk	(Buteo regalis)	UM	C-2	
Bald Eagle	(Haliaeetus leucocephalus)	UM	E	E
Arctic Peregrine Falcon	(Falco peregrinus tundrius)	LM	T	T
American Peregrine Falcon	(Falco peregrinus anatum)	PM	E	E
Northern Aplomado Falcon	(Falco femoralis septentrionalis)	UR	E	E
Reddish Egret	(Egretta rufescens)	CR	C-2	T
Long-billed Curlew	(Numenius americanus)	CM	C-2	
Western Snowy Plover	(Charadrius alexandrinus nivosus)	LM	C-2	
Piping Plover	(Charadrius melodus forficatus)	LM	T	
Sooty Tern	(Sterna fuscata)	PM		T
Migrant Loggerhead Shrike	(Lanius ludovicianus migrans)	PM	C-2	
Texas Botteri's Sparrow	(Aimophila botterii texana)	UR	C-2	T
MAMMALS				
Texas Maritime Pocket Gopher	(Geomys personatus maritimus)	CR	C-2	
Ocelot	(Felis pardalis)	UV	E	E
Jaguarundi	(Felis yagouroundi)	UV	E	E

enc(1)

EXHIBIT B

NAS CORPUS CHRISTI

SURVEY OF RARE, THREATENED,

AND

ENDANGERED PLANTS
(in part)

Survey by Texas Parks & Wildlife Department

encl(2)

NAVAL AIR STATION CORPUS CHRISTI
NUECES COUNTY, TEXAS
SURVEY OF RARE, THREATENED, AND ENDANGERED PLANTS
Final Report, 1 September 1992

NAS Corpus Christi occupies 2341 acres in eastern Nueces County, Texas, at the east edge of the city of Corpus Christi and at the north edge of the town of Flour Bluff. The site lies at the northern tip of the Encinal Peninsula, bounded on the east by Laguna Madre, on the north by Corpus Christi Bay, and on the west by Oso Bay. Topography is generally level, with elevations ranging from mean sea level to 17 or 18 feet above mean sea level.

GEOLOGY/SOILS

The Encinal Peninsula is underlain primarily by deep sands which represent the remnants of a late Pleistocene barrier island or strandplain, sometimes called the Ingleside Ridge or Ingleside Barrier, which extended along most of the Texas Coastal Bend. A detailed discussion of this interesting geology is beyond the scope of this report (and beyond the expertise of the reporter) but it should be noted that this barrier island or strandplain lies several miles inland from the present barrier island system (North Padre Island, Mustang Island, etc.); and more importantly that it abuts, to the west, the Pleistocene Beaumont Formation, where finer textured sediments were deposited in a deltaic situation. The vast difference between the vegetation and the flora of NAS Corpus Christi (on barrier island sands) and nearby OLF Cabaniss and the Peary Place Transmitter site (on clays of the Beaumont Formation) is due in large part to the substrates provided by this geology.

Prior to development, lowlying areas, tidal flats, and shorelines along this tip of the Encinal Peninsula were certainly covered with Quaternary and more recent alluvial deposits. This geology has been somewhat obscured by dredge and fill operations, including the connection of Demit Island to the mainland.

Soils of uplands are deep, light-colored, loose sands of the Galveston Series. These sands are Typic Udipsamments and range from slightly saline to slightly acid depending on proximity to the Gulf of Mexico. Very slow runoff allows these soils to remain moist in their lower layers most of the time. Mustang soils, deep sandy Typic Psammaquents, are present in lower areas which are occasionally flooded by high tides. These soils are often saline after flooding but become less saline during storm-free periods. Layers of sand, shell, and clay underlie tidal flats along Oso Bay and along parts of Corpus Christi Bay. Also present are areas of "made land", the results of dredge and fill operations. Made land is extensive in the northwestern quarter of the base, where tidal flats were filled in construction of the main runways. These soils are at least slightly saline.

PLANT COMMUNITIES

The original vegetation of most of NAS Corpus Christi probably consisted of a mosaic of mixed scrub oak-redbay woodlands and mid to tallgrass grassland openings; this mosaic occupied deep Galveston Series sands of the Ingleside Barrier. The vegetation of tidally influenced saline flats was presumably similar to that present today along Oso Bay, consisting of scattered clumps of salt tolerant grasses and low growing forbs. A fascinating series of aerial photographs housed at the Public Works office at NAS Corpus Christi indicates that virtually all of the native vegetation within the original boundaries of the station was altered during what must have been an amazing frenzy of construction activity in the latter half of 1940.

Present vegetation of most of the station consists of frequently mown lawns as well as seldom mown expanses of what is essentially tame pasture, i.e., grasslands consisting of few, mostly non-native, species. Silky bluestem (Dichanthium sericeum) and King Ranch bluestem (Bothriochloa ischaemum) are abundant in such situations. However, small areas along the perimeter of the station support natural plant communities which merit discussion, as well as some conspicuous disturbance types which will also be mentioned.

Laurel Oak-Redbay Woodlands

The area along the southern perimeter of the installation, lying south of the paved patrol road but inside the current fenceline (area a, Figure 2), supports a broadleaf evergreen-deciduous woodland which probably closely represents the original vegetation of deep sandy Galveston Series soils on the Ingleside Barrier/Encinal Peninsula, at least in composition if not in structure. The woodland consists of dense low (less than 10 feet in height) thickets in which laurel oak (Quercus hemisphaerica) is the most common component, with redbay (Persea borbonia) also characteristic. These two shrubs or small trees are absent from all other plant communities found on the 11 Naval installations included in this project, and in fact this community is not widely distributed in Texas, being limited mostly to such Pleistocene sands. Other oaks are also present, although what species they are is problematic. One is a somewhat taller live oak, probably coastal live oak (Quercus virginiana); another live oak may also be present, perhaps Quercus minima. Other characteristic shrubs include yaupon (Ilex vomitoria) and wax myrtle (Myrica cerifera), the latter forming thickets about 3 feet in height in slightly lower or depressional areas. Few other woody plants are important. A few chinaberry (Melia azederach) trees are present in disturbed areas, and a few black willow (Salix nigra) and buttonbush (Cephalanthus occidentalis) are conspicuous in areas that may have been trenched in the past. Toward the eastern edge of the area, various natural and manmade openings support dense stands of mid

and tall grasses such as big bluestem (Andropogon gerardii), little bluestem (Schizachyrium scoparium), brownseed paspalum (Paspalum plicatulum), and gulfdune paspalum (Paspalum monostachyum), plus a very large number of forb species (Table 1). It is interesting to note that except for an added sendero or two, the balance between woodland and grassland/waxmyrtle thicket in this eastern portion appears to have remained unchanged since 1940; micro- topography and associated differences in drainage may be one factor involved. The western portion, however, has been cut over and now supports lower regrowth laurel oak/live oak thickets overtopped in many areas by big bluestem. Forb diversity in this area is also high. In the middle of this area is an old dump site which supports a disturbance type dominated by silverleaf sunflower (Helianthus argophyllus), Roosevelt weed (Baccharis neglecta), and Chinese tallowtree (Sapium sebiferum).

Mesquite woodlands

Another area of conspicuous vegetation lies in the northwest corner of the installation (area B, Figure 2). This area is underlain by fill material presumably dredged from some nearby source, fill which is sandy to clayey and saline at least in part. This fill was brought in after or during the latter phase of base construction.

This tract presently supports a young growth deciduous woodland clearly dominated by honey mesquite (Prosopis glandulosa) of various sizes. In presumably older portions these mesquite are 8 to 10 feet in height and provide perhaps 50 to 60 percent cover; in others, mesquite average 4 feet in height. Very few other woody plants are present (Table 2), and none are important. Ground cover under larger mesquites is negligible, but in openings King Ranch bluestem, a matspurge (Euphorbia sp.), and sea oxeye (Borrichia frutescens) are abundant; camphor daisy (Machaeranthera phyllocephala) is also common. Many of these species are tolerant of slightly saline conditions. Other fill areas in this portion of the installation appear to be succeeding to this vegetation type.

Saline to brackish swales and tidal flats

Lowlying, poorly drained areas adjacent to these mesquite woodlands in area A are devoid of woody plants, probably because of higher levels of accumulated salts. However, two very low growing subshrubs, running mesquite (Prosopis reptans) and Carolina wolfberry (Lycium carolinianum) are present, along with patches of shoregrass (Monanthochloe littoralis), seashore dropseed (Sporobolus virgincus), a sumpweed (Iva sp.), seepweed (Suaeda linearis), quelite (Atriplex arenaria), and a few other halophytes (Table 3). Bare areas are also conspicuous. Saline soils within a tidal flat in this area support scattered patches of vegetation composed of a single or a few species, such as saltgrass

(Distichlis spicata), shoregrass, sea purslane (Sesuvium portulacastrum), and saltwort (Batis maritima).

Drainage ditches

Due to the investigator's unbridled cyperiphilia, the vegetation of various wet nonsaline sands in drainage ditches cut through the laurel oak-redbay woodlands (Figure 2, area D) was also very briefly examined. One species of interest was encountered (Table 4) in September 1991. Fuirena scirpoidea (a porcupinesedge), a species found in only two or three counties in Texas, was locally frequent with other sedges in a ditch near Lexington Boulevard, but may have been extirpated by dredging in spring 1992.

RARE PLANT SPECIES

The deep loose Galveston Series sands of the Ingleside Barrier are unlikely to support any species of federal concern or species tracked by the Texas Natural Heritage Program. However, damp saline sands on tidal flats, etc., might be expected to support two of the targeted species. Roughseed seapurslane (Sesuvium trianthemoides), a poorly undertstood Category 2 candidate, and Kleberg saltbush (Atriplex klebergorum), a plant with no federal status, were sought in such areas but were not found.

OTHER PLANT SPECIES

Also sought were plant species which have an estimated global ranking of G3 or lower, or an estimated state ranking of S2 or lower. One peripheral species might fall into this category.

A porcupine sedge (Fuirena scirpoidea) of interest was found at NAS Corpus Christi. This species should probably be ranked G5S1 or S2, being distributed from Georgia to Texas as well as Cuba but being apparently absent from most of Texas, found so far only in a few spots in Nueces and adjacent counties. In September 1991 it was found to be locally frequent in wet sandy soil in a steep-sided drainage ditch on the south side of the paved patrol road, along a stretch running westnorthwest to eastsoutheast, about 1000 feet westnorthwest of the guard station on Lexington Boulevard. In June of 1992 no plants were seen after dredging operations to improve drainage, but it is possible that new culms will sprouts if any rhizomes remain. Fuirena scirpoidea was found in June 1992 at NALF Waldron and at NS Ingleside.

Coastal greenthread (Thelesperma nuecense) was listed in the first interim report (November 1991) as perhaps a G3S3 species, but additional research has revealed the species to be more common than originally estimated. It is perhaps better ranked G4S4. It is

endemic to deep sandy soils in a ten county area in southeast Texas. At this installation, it is scattered throughout openings in laurel oak-redbay woodlands. Coastal greenthread is also scattered in similar habitat at NALF Waldron, and in abundant in undeveloped lots in the Flour Bluff area.

Similarly, **corona de Cristo, passionflower (Passiflora foetida var. gossypifolia)** has been re-ranked as G5T5S3. It was found in disturbed sandy soil along the sand road along the perimeter fenceline near the south end of the dump area. Only one or two vines were seen. This taxon was also seen in several spots at NAS Kingsville, where it occurs in clayey soils, at NALF Orange Grove, where it occurs along the edge of a cornfield, and at NALF Waldron. Although apparently widespread over a portion of South Texas, this passionflower seldom occurs in large numbers.

Texasgrass (Vaseyochloa multinervosa), a G4S4 species endemic to Texas, was not mentioned in the first interim report. However, it is another interesting species found in the grassland openings associated with coastal laurel oak-redbay woodlands. According to Gould (1975a) Texasgrass is locally abundant in sandy sites in San Patricio, Kleberg, and Nueces Counties. It is also present at NALF Waldron.

AREAS OF BOTANICAL INTEREST

The laurel oak-redbay woodlands found in area A (see above) along the southern perimeter of the installation is a fair quality representative of an uncommon plant community of restricted distribution in Texas. This community is better represented on Navy property at NALF Waldron and NS Ingleside.

SUMMARY OF SURVEYS

NAS Corpus Christi was surveyed for rare plants and areas of botanical interest on 24-25 September 1991, 2 April 1992, and 9 June 1992. Areas surveyed are outlined in Figure 4.

Table 1. Plant species observed in laurel oak-redbay woodlands and associated grassland openings in area A, NAS Corpus Christi; based on field surveys of 24-25 September 1991, 2 April 1992, and 9 June 1992.

WOODY PLANTS

Baccharis neglecta
Celtis laevigata
Eupatorium odoratum
Ilex vomitoria
Melia azederach
Myrica cerifera
Opuntia lindheimeri
Persea borbonia
Prosopis glandulosa
Rubus trivialis
Quercus hemisphaerica
Quercus virginiana
(and/or Q. minima)
Sapium sebiferum
Smilax bona-nox
Vitis mustangensis

GRASSES/SEDGES

Andropogon gerardii
Aristida longiseta
Aristida longespica
var. geniculata
Bothriochloa ischaemum
Brachiaria ciliatissima
Cenchrus ciliaris
Cenchrus incertus
Chloris cucullata
Chloris verticillata
Commelina erecta
Cyperus ovularis
Cyperus polystachyos
Dactyloctenium aegyptium
Dichanthelium sp.
Dichromena colorata
Digitaria texana
Eragrostis secundiflora
Fimbristylis caroliniana
Juncus bufonius
Juncus marginatus
Juncus megacephalus
Juncus validus
Leptoloma cognatum
Panicum texanum
Panicum virgatum
Paspalum monostachyum
Paspalum plicatulum
Schizachyrium scoparium
Scleria triglomerata
Sporobolus cryptandrus
Triplasis purpurea
Vaseyochloa multinervosa

FORBS

Acalypha radians
Agalinis heterophylla
Ambrosia psilostachya
Aphanostephus skirrhobasis
Artemisia sp.
Asclepias oenotheroides
Baptisia leucophaea
Cassia fasciculata
Centaurium calycosum
Centrosema virginianum
Cirsium horridulum
Cnidoscolus texanus
Coreopsis tinctoria
Corydalis micrantha
Croton capitatus
Croton glandulosus
Croton sp. (11470)
Cynanchum sp.
Dalea obovata
(Petalostemum ovbovatum)
Diodia teres
Eriogonum multiflorum
Eryngium yuccifolium
Erythrina herbacea
Eupatorium betonicifolium
Euphorbia sp.
Froelichia floridana
Gaillardia aestivalis
Helianthemum georgianum
Helianthus annuus
Helianthus argophyllus
Helianthus debilis
Herissantia crispa
Heterotheca latifolia
Hypericum drummondii
Hypericum gentianioides
Indigofera miniata

Table 1, continued

Indigofera suffruticosa
Iva angustifolia
Iva annua
Lechea mucronata
Liatris elegans
Melilotus indicus
Mentzelia oligosperma
Nothoscordum bivalve
Oenothera grandis
Oenothera laciniata
Oenothera speciosa
Palafoxia texana
Parietaria obtusa
Passiflora foetida
  var. gossypifolia
Phacelia patuliflora
Phlox glabriflora
Phyllanthus abnormis
Physalis sp.
Plantago sp.
Polanisia erosa
Polygonella polygama
Polypremum procumbens
Rhynchosia americana
Richardia brasiliense
Rudbeckia hirta
Senecio riddellii
Sida sp. (S. spinosa?)
Solanum elaeagnifolium
Solidago nitida
Solidago odora
Stemodia tomentosa
Styllingia sylvatica
Stylosanthes biflora
Thelesperma nuecense
Triodanis perfoliata
Verbena halei
Vicia leavenworthii
Xanthocephalum sp.

Table 2. Plant species observed in mesquite woodland on saline fill material, area B, NAS Corpus Christi; based on field surveys of 24-25 September 1991 and 9 June 1992.

WOODY PLANTS

Cetis laevigata
Lantana horrida
Leucaena leucocephala
Opuntia lindheimeri
Prosopis glandulosa
Prosopis reptans
Smilax bona-nox
Zanthoxylum sp.

GRASSES/SEDGES

Aristida sp. (11476)
Aristida sp. (11477)
Bothriochloa ischaemum
Cenchrus ciliaris
Chloris verticillata
Chloris sp. (C. ciliata?)
Dactyloctenium aegyptium
Dichanthium sericeum
Eriochloa contracta
Eragrostis secundiflora
Fimbristylis sp.
Setaria geniculata
Setaria leucopila
Sporobolus pyramidatus

FORBS

Ambrosia psilostachya
Aphanostephus sp.
Borrichia frutescens
Calylophus australis
Dyssodia pentachaeta
Erigeron myrionactis
Euphorbia sp.
Hedyotis nigricans
Helianthus annuus
Heliotropium curassavicum
Heterotheca latifolia
Iva angustifolia
Limonium nashii
Melilotus alba
Machaeranthera phyllocephala
Neptunia pubescens
Oenothera drummondii
Oxalis drummondii
Palafoxia texana
Ratibida columnaris
Rivina humilis
Sabatia campestris
Sclerocarpus uniserialis
Sesbania macrocarpa
Sisyrinchium sp.
Spiranthes vernalis
Teucrium cubense

Table 3. Plant species observed in saline/brackish swales and tidal flats, area C, NAS Corpus Chrsti; based on field surveys of 24-25 September 1991 and 9 June 1992.

WOODY PLANTS

Lycium berlandieri
Prosopis reptans

GRASSES/GRAMINOIDS

Cyperus elegans
Dichromena colorata
Distichlis spicata
Fimbristylis castanea
Monanthochloe littoralis
Sporobolus virginicus
Typha sp.

FORBS

Agalinis sp.
Atriplex arenaria
Bacopa monnieri
Batis maritima
Borrichia frutescens
Eustoma exaltatum
Heliotropium curassavicum
Iva anugustifolia
Limonium nashii
Machaeranthera phyllocephala
Melilotus alba
Phyla incisa
Polygonum ramosissimum
Pluchea purpurascens
Salicornia sp.
Samolus ebracteatus
Sesuvium maritiumum
Sesuvium portulacastrum
Spergularia marina
Suaeda linearis
unknown Chenopod (11478)

Table 4. Plant species observed in wet nonsaline sand in drainage ditches, area D, NAS Corpus Chrsti; based on field surveys of 24-25 September 1991 and 9 June 1992.

WOODY PLANTS

Baccharis neglecta
Leucaena leucocephala
Salix nigra

GRASSES/SEDGES/GRAMINOIDS

Andropogon glomeratus
Eleocharis sp. (perennial)
Fuirena scirpoidea
Paspalum monostachyum
Paspalum urvillei
Typha domingensis

FORBS

Bacopa monnieri
Eupatorium betonicifolium
Lythrum alatum

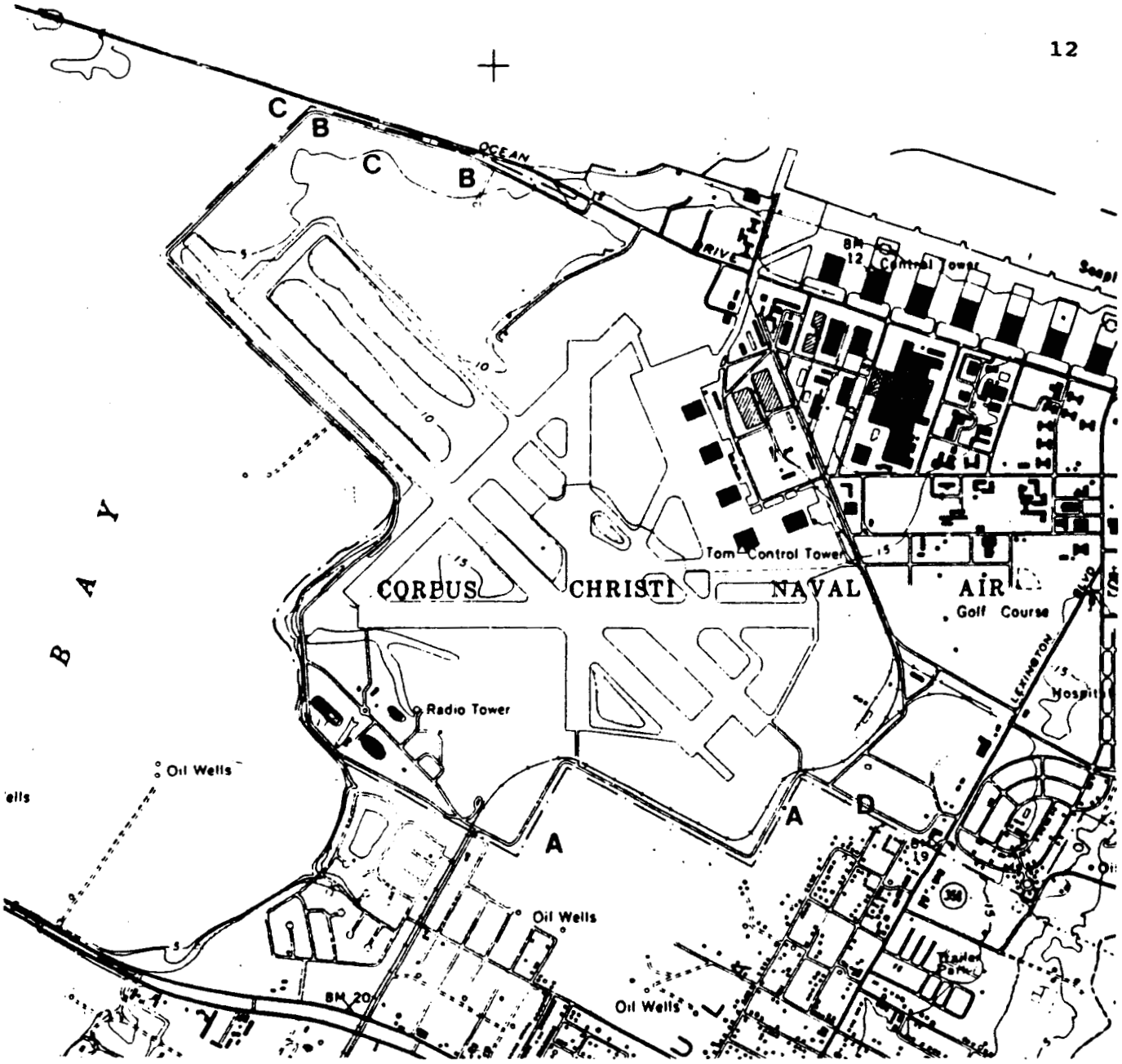

Figure 2. Some representative plant communities at NAS Corpus Christi: laurel oak-redbay woodlands (area a); young mesquite woodlands (area b); saline/brackish swales and tidal flats (area c); drainage ditches (area d).

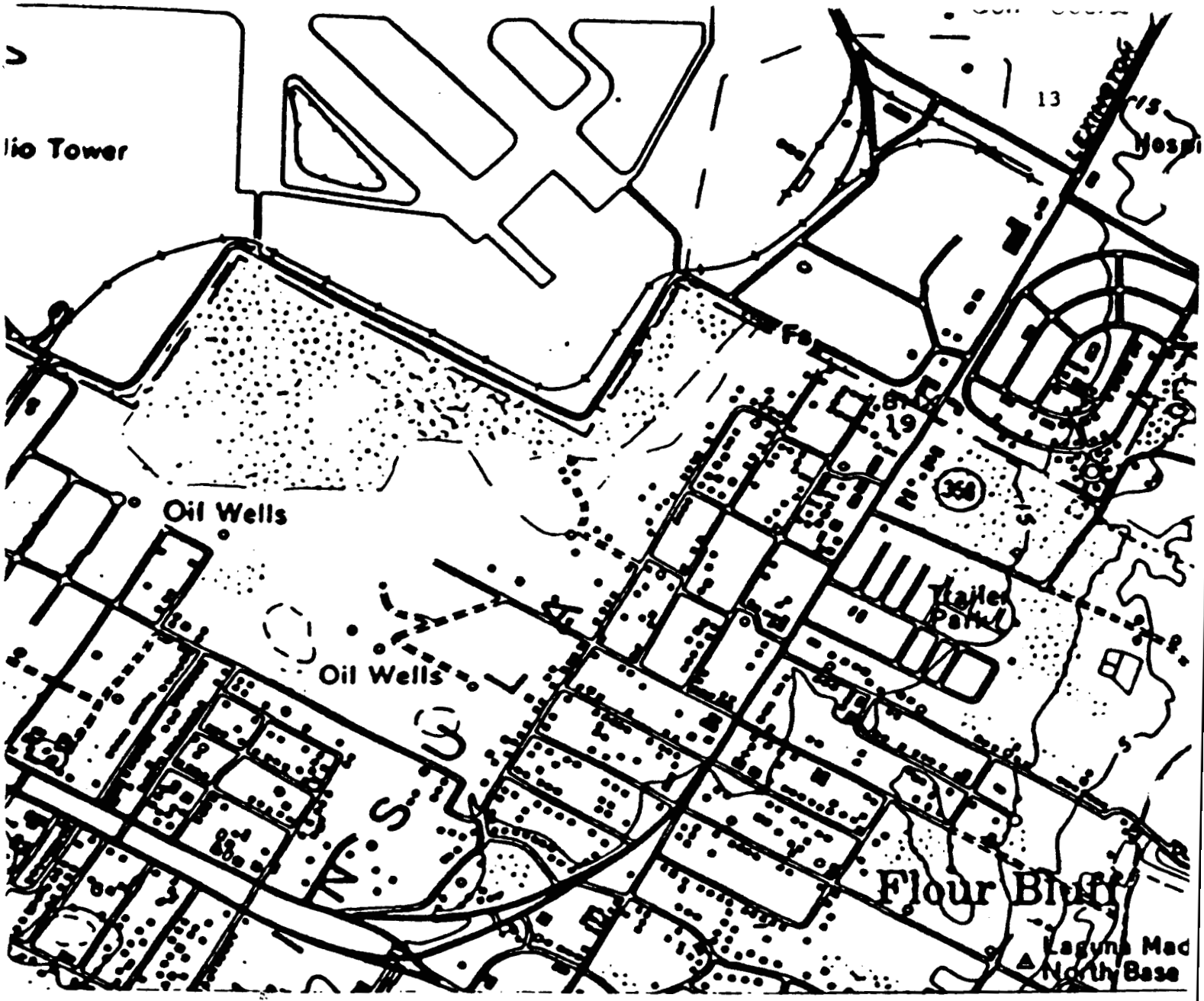

Figure 3. Location of population of Fuirena scirpoidea (Fs), NAS Corpus Christi. Scale: 1" = 1000'.

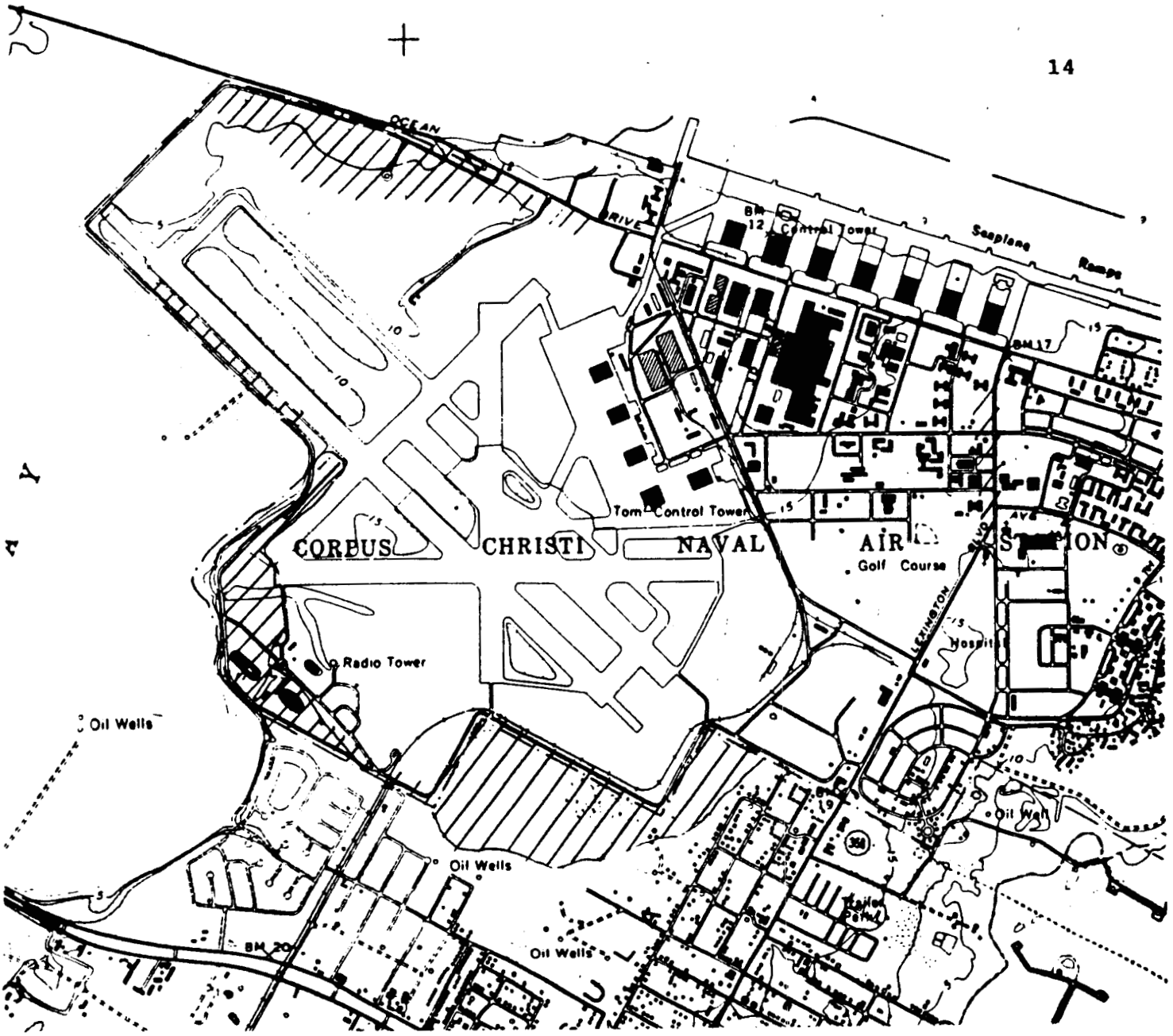

Figure 4. Areas surveyed for rare plants, etc., NAS Corpus Christi, 24-25 September 1991, 2 April 1992, and 9 June 1992.

NAVAL AUXILIARY LANDING FIELD WALDRON
NUECES COUNTY, TEXAS
SURVEY OF RARE, THREATENED, AND ENDANGERED PLANTS
Final Report, 1 September 1992

Naval Auxiliary Landing Field Waldron occupies 640 acres in southeastern Nueces County, Texas, on the Oso Creek NE and Pita Island 7.5′ quadrangles (Figure 1). The field lies on the Encinal Peninsula, which is bounded on the east by Laguna Madre, on the west by Oso Bay, and on the north by Corpus Christi Bay. Topography is level to somewhat hummocky, with elevation ranging from above 18 to about 27 feet above mean sea level.

GEOLOGY/SOILS

The Encinal Peninsula is underlain primarily by deep sands which represent the remnants of a late Pleistocene barrier island or strandplain, sometimes called the Ingleside Barrier, which extended along most of the Texas Coastal Bend. A detailed discussion of this interesting geology is beyond the scope of this report but it should be noted that this barrier island or strandplain lies several miles inland from the present barrier island system (North Padre Island, Mustang Island, etc.); and more importantly that it abuts, to the west, the Pleistocene Beaumont Formation, where finer textured sediments were deposited in a deltaic situation.

Soils of NALF Waldron are deep, loose, light-colored, slightly acid sands (Typic Udipsamments) of the Galveston Series. Very slow runoff allows these soils to remain moist in their lower layers most of the year. Mustang soils, deep sandy Typic Psammaquents, are present in lower areas which are occasionally flooded.

PLANT COMMUNITIES

Although NALF Waldron has the usual non-native mown grasslands found around other landing strips, as well as some areas devoted to athletic fields and horse pasture, a considerable portion of the installation supports one native plant community. Some variants are also present, and will be discused below.

Coastal laurel oak-redbay woodlands

Much of the undeveloped portion of the installation supports a mixed evergreen/deciduous woodland in which oaks are the most important species. Portions examined lie along the western perimeter and the western two-thirds of the northern perimeter (Figure 2, area A). In this area thickets of coastal laurel oak (Quercus hemisphaerica) ranging in height from about 4 to perhaps 8 feet are the most conspicuous feature. Another thicket forming oak is also present but has not been identified; this oak reaches 12 feet in height in some places in the southwestern corner of the installation. Other characteristic woody species include redbay (Persea borbonia), some of which reach 12 feet in height, and shrubs such as yaupon (Ilex vomitoria) and American beautyberry (Callicarpa americana). Blackjack oak (Quercus marilandica) is present but rare. A fourth oak is also present; this species, presumably coastal live oak (Quercus virginiana), forms groves with a single closed, rounded canopy at about 15 feet, overtopping surrounding laurel oaks. Waxmyrtle (Myrica cerifera) is also characteristic of this community. This low (2-3 feet tall) shrub forms thickets in lower, moister areas.

Associated with these dense, low, thickety woodlands are various openings, mostly manmade trails; some natural openings may occur in soils too poorly drained to support oak woodlands. Drier openings are in some spots covered with big bluestem (Andropogon gerardii) which in the fall of 1991 reached a height of 8 feet. Most of the grasses are of midgrass size; little bluestem (Schizachyrium scoparium), brownseed paspalum (Paspalum plicatulum), gulfdune paspalum (Paspalum monostachyum), and switchgrass (Panicum virgatum) are common components. Dozens of forbs are also present (Table 1), many of them interesting areniphiles.

Drainage ditches

Also examined were drainage ditches in various parts of the installation (Figure 2, area B). Wet sands in these ditches support a sedge-dominated community of fair diversity (Table 2). Three of these sedges, Fuirena scirpoidea, Rhynchospora divergens, and Rhynchospora microcarpa, may be of statewide significance (see "Other Rare Plant Species" below).

Disturbance type in siltier (fill?) soils

Soils in the southeast corner of the installation are of a finer texture and also contain some shell fragments. It is likely that some kind of fill material has been added in this spot. Since it offers a different substrate than the Galveston soils elsewhere, this spot was briefly examined. The vegetation is a grassland disturbance type which is frequently mown. King Ranch bluestem (Bothriochloa ischaemum) is the main component and other non-native Dichanthium species are doubtless present. In all the composition is quite unremarkable, but a few species not seen elsewhere are present (Table 3).

RARE PLANT SPECIES

No plant species of federal concern or plant species tracked by the Texas Natural Heritage Program were encountered during surveys conducted on 25-26 September 1991, 2 April 1992, and 8 June 1992.

OTHER RARE PLANT SPECIES

Also sought were plant species with an estimated global ranking of G3 or lower, or an estimated state ranking of S2 or lower. Three such species were encountered. See Figure 3 for locations of these occurrences.

Jones nailwort (Paronychia jonesii), a G3S3 species endemic to Texas, was collected in deep loose sand possibly dredged from a nearby drainage ditch, at the edge of laurel oak-redbay woodlands in the southwest corner of the installation, near the northeast corner of Flour Bluff Drive and Yorktown Boulevard. It is also present along the shoulder of Flour Bluff Drive outside the perimeter fence adjacent to this site.

A beakrush (Rhynchospora divergens), a globally common species apparently rare in Texas (G5S1?) was collected in wet sand in a broad unshaded drainage ditch in the southwest SW corner of the installation, along the north side of Yorktown Boulevard and along the east side of Flour Bluff Drive. Correll and Johnston (1970) report it in Texas only from Aransas and Montgomery counties.

Another beakrush (Rhynchospora microcarpa), presumably ranked G5S2, is found in similar habitat at several locations around the installation. This beakrush is reported in Texas only from Aransas and San Patricio Counties, but it ranges east to Florida and the Caribbean.

A porcupine sedge (Fuirena scirpoidea) of interest was also found in a drainage ditch at NALF Waldron. This species is probably best ranked G5S1 or S2; it ranges from Georgia and Cuba west to Texas but is apparently absent from most of this state, being found so far only in a few spots in Nueces and adjacent counties. Fuirena scirpoidea was also encountered at NAS Corpus Christi and at NS Ingleside.

Two other species were included in the first interim report (November 1991). Additional research and conversations with botanists has revealed them to be more common or widespread than originally estimated. With adjusted rankings higher than G3 and/or S3, they are excluded from this report. Those species are:

Texas crabgrass (Digitaria texana), perhaps a G4S4 species endemic to Texas, was collected about 500 feet eastsoutheast of the intersection of Flour Bluff Drive and Caribbean Drive, along the sand perimeter road at the northern edge of the installation. It

was also found scattered throughout such openings in laurel oak-redbay woodlands. It is also present at NAS Corpus Christi and at NS Ingleside.

Coastal greenthread (Thelesperma nuecense), another presumed G4S4 species endemic to Texas was found in simiar habitat. It was collected about 500 feet eastsoutheast of the intersection of Flour Bluff Drive and Caribbean Drive, along the sand perimeter road at the northern edge of the installation. It was also found scattered throughout openings in laurel oak-redbay woodlands, as well as in more disturbed areas near the athletic fields in the southeastern corner of the installation. This species was also encountered at NAS Corpus Christi, in similar habitat. Surveys of other Ingleside Barrier areas in Nueces and San Patricio Counties in June 1992 proved to this investigator that coastal greenthread is one of the more common plant species in this part of the state.

Texasgrass (Vaseyochloa multinervosa), another G4S4 species endemic to Texas, was not mentioned in the first interim report. However, it is another interesting species found in the grassland openings associated with coastal laurel oak-redbay woodlands. According to Gould (1975a) Texasgrass is locally abundant in sandy sites in San Patricio, Kleberg, and Nueces Counties. It is also present at NAS Corpus Christi.

Although its ranking is probably G5S4, **sundew (Drosera annua)** also deserves mention if only because its insectivorous nature has made it a favorite of many plant enthusiasts. Populations of sundews were found in April 1992 in the southwestern corner of the field, in somewhat moist sand where competition from taller grasses was severely reduced.

INTERESTING BOTANICAL AREAS

Unlike most of the 11 Naval installations visited during these surveys, NALF Waldron has extensive areas of considerable botanical interest. The laurel oak-redbay woodlands found throughout much of the undeveloped western part of the installation are fairly high quality representatives of an uncommon plant community of restricted distribution in Texas. The diversity of species in openings in this woodland is significant, and some marginally rare endemic species are present. The abundance of big bluestem in this community is also notable; in many parts of its former range this once common grass has been eliminated by cattle grazing. This woodland/grassland type is threatened with suburban development elsewhere on the Encinal Peninsula and north toward Rockport. A smaller representative occurs on NAS Corpus Christi, and an interesting but rapidly disappearing representative is present at NS Ingleside. Conservation of these areas at NALF Waldron is recommended. The objective should be to maintain a balance between oak-redbay woodland and grassland openings. Without active

management it seems obvious that grassland openings would rapidly be replaced by oak-redbay woodland. Since prescribed fire is too complicated an option, it seems reasonable to suggest that the current regime of occasional mowing of various trails be continued. The current light usage of smaller trails for equestrian recreation also maintains openings utilized by some of these plants. At present it appears that current management of this interesting area is appropriate and should not be altered.

SUMMARY OF SURVEYS

NALF Waldron was surveyed for rare plant species, etc., on 25-26 September 1991, 2 April 1992, and 8 June 1992. Areas visited are indicated in Figure 4.

Table 1. Plant species observed in laurel oak-redbay woodlands and associated grasslands, area A, NALF Waldron; based on field surveys of 25-26 September 1991 and 2 April 1992.

WOODY PLANTS
Ascyrum hypericoides
Baccharis neglecta
Callicarpa americana
Ilex vomitoria
Myrica cerifera
Persea borbonia
Quercus hemisphaerica
Quercus marilandica
Quercus virginiana
Rubus trivialis
Smilax bona-nox
Vitis mustangensis

GRASSES/SEDGES
Andropogon gerardii
Aristida longespica
Bothriochloa ischaemum
Bromus unioloides
Bulbostylis capillaris
Cenchrus incertus
Cyperus globulosus
Cyperus cf. uniflorus
Dichanthium sp.
Digitaria texana
Eragrostis secundiflora
Eragrostis spectabilis
Fimbristylis autumnalis
Fimbristylis caroliniana
Panicum hians
Panicum virgatum
Paspalum monostachyum
Paspalum plicatulum
Schizachyrium scoparium
Scleria triglomerata
Triplasis purpurea
Vaseyochloa multinervosa

FORBS
Acalypha radians
Aeschynomene viscidula
Alophia drummondii
Ambrosia psilostachya
Aphanostephus skirrhobasis
Buchnera floridana
Cassia fasciculata
Centrosema virginianum
Centunculus minimus
Cirsium horridulum
Cissus incisa
Commelina erecta
Conyza canadensis
Croton argyranthemus
Croton capitatus
Croton glandulosus
Dalea emarginata
Diodia teres
Drosera annua
Eriogonum multiflorum
Eupatorium serotinum
Euphorbia ammannioides
Euphorbia cordifolia
Froelichia floridana
Gaillardia aestivalis
Hedyotis greenmanii
Helianthemum georgianum
Helianthus argophyllus
Helianthus debilis
Heterotheca pilosa
Indigofera miniata
Indigofera suffruticosa
Lechea mucronata
Liatris elegans var. carrizana
Mollugo verticillata
Monarda punctata
Nothoscordum bivalve
Oenothera grandis
Oenothera laciniata
Palafoxia texana
Paronychia jonesii
Passiflora foetida
Phyllanthus abnormis
Physalis sp.
Polanisia erosa ssp. erosa
Polygonella polygama
Rhynchosia americana
Richardia brasiliense
Sabatia campestris
Schrankia sp. (S. latidens?)
Solidago odora
Stemodia tomentosa
Stillingia sylvatica
Stylisma villosa
Stylosanthes biflora
Thelesperma nuecense
Tradescantia humilis

Table 1, continued

Utricularia subulata
Verbena halei
Vicia leavenworthii

Table 2. Plant species observed in wet sands in drainage ditches within area A, NALF Waldron; based on field surveys of 25-26 September 1991, 2 April 1992, and 8 June 1992.

GRASSES/SEDGES/GRAMINOIDS	FORBS
Cyperus acuminatus	Bacopa monnieri
Cyperus haspan	Eupatorium betonicifolium
Cyperus sp. (11532)	Hydrocotyle bonariensis
Dichromena colorata	Iva angustifolia
Eleocharis caribaea	Lythrum lanceolatum
Eleocharis cellulosa	Phyla incisa
Eleocharis sp. (E. montividensis?)	Pluchea purpurascens
Fimbristylis caroliniana	Samolus ebracteatus
Fuirena scirpoidea	Solidago sempervirens
Fuirena simplex	Spiranthes vernalis
Juncus marginatus	
Juncus megacephalus	
Juncus validus	
Juncus sp.	
Panicum hians	
Paspalum monostachyum	
Paspalum plicatulum	
Rhynchospora divergens	
Rhynchospora glomerata	
Rhynchospora microcarpa	
Setaria geniculata	
Xyris jupicai	

Table 3. Plant species observed in siltier soils, area B, NALF Waldron; based on field surveys of 26 September 1991 and 2 April 1992.

WOODY PLANTS

Leucaena leucocephala
Quercus virginiana
Opuntia lindheimeri

GRASSES/SEDGES

Aristida sp. (annuals)
Bothriochloa ischaemum
Bouteloua rigidiseta
Cyperus cf. uniflorus
Schizachyrium scoparium

FORBS

Agalinis strictifolia
Asclepias oenotheroides
Cassia fasciculata
Centrosema virginianum
Commelina erecta
Croton capitatus
Diodia teres
Gaillardia pulchella
Hedyotis nigricans
Helianthus argophyllus
Heterotheca latifolia
Indigofera miniata
Ipomaea trichocarpa
Iva angustifolia
Palafoxia texana
Rhynchosia americana
Thelesperma nuecense
Xanthocephalum sp.

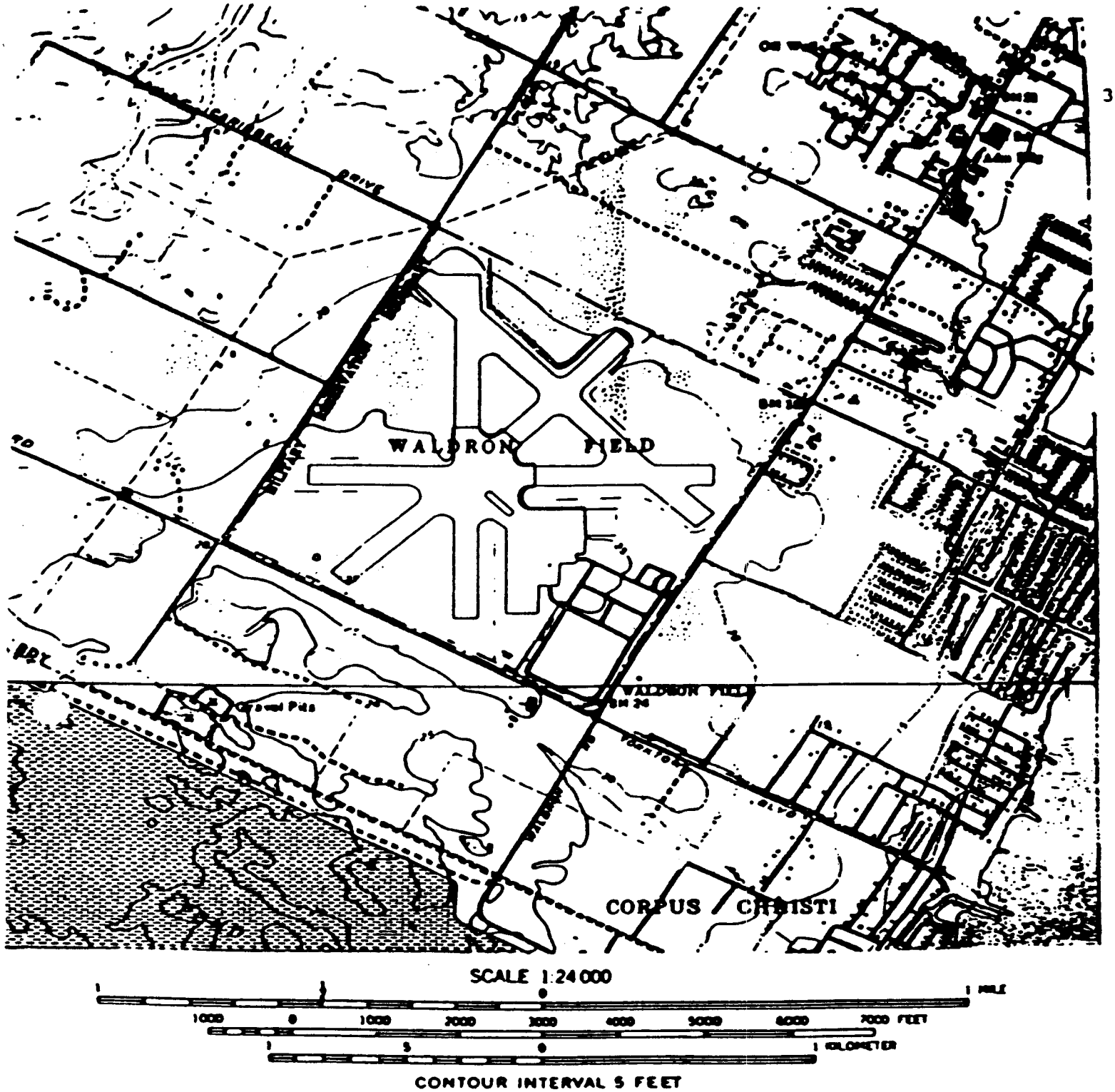

Figure 1. NALF Waldron; from Oso Creek NE (USGS, 1975) and Pita Island (USGS, 1975) quadrangles.

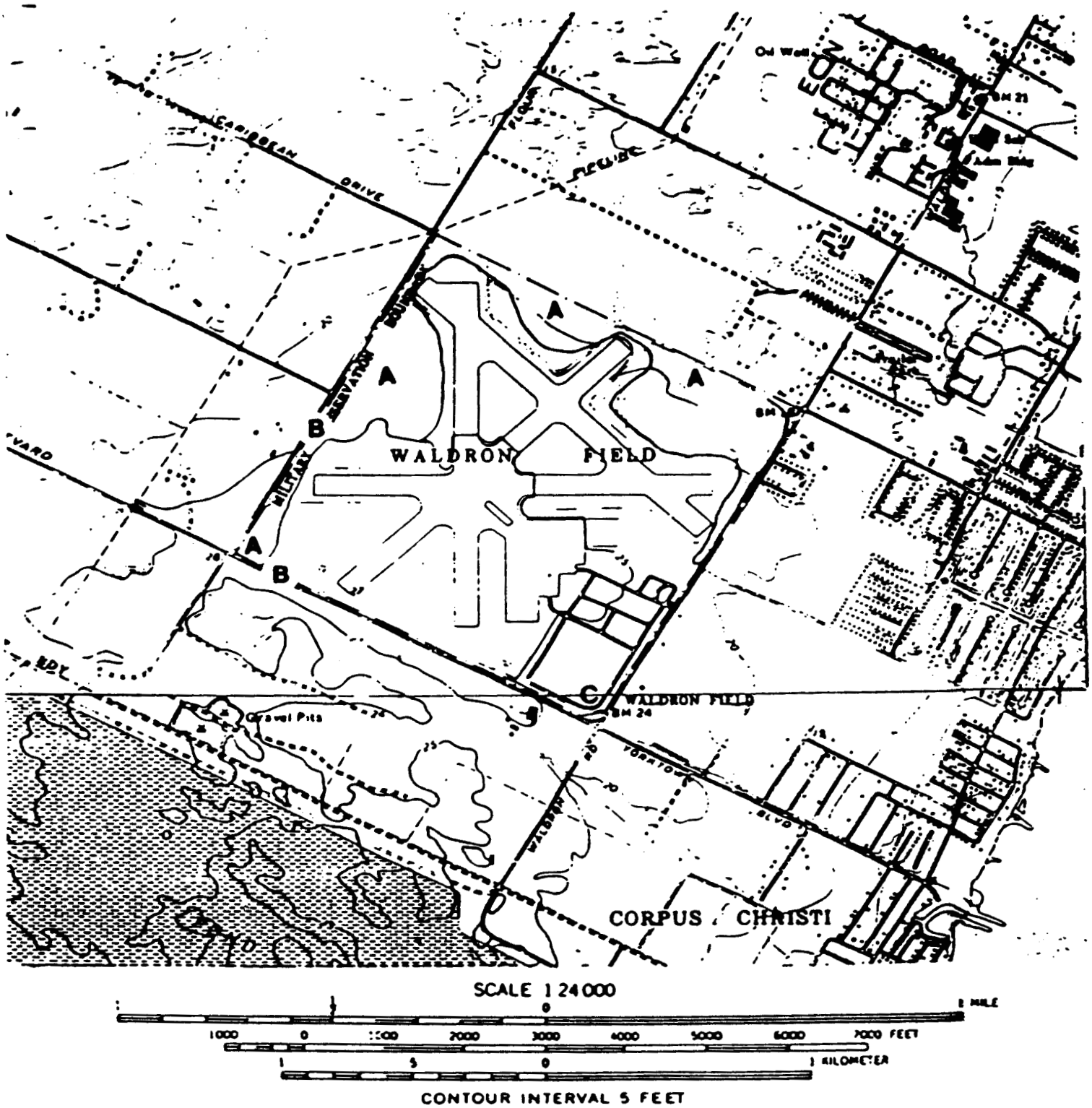

Figure 2. Some representative plant communities of NALF Waldron: laurel oak-redbay woodlands (area A); wet sand in drainage ditches (area B); grassland variant on siltier soils (area C).

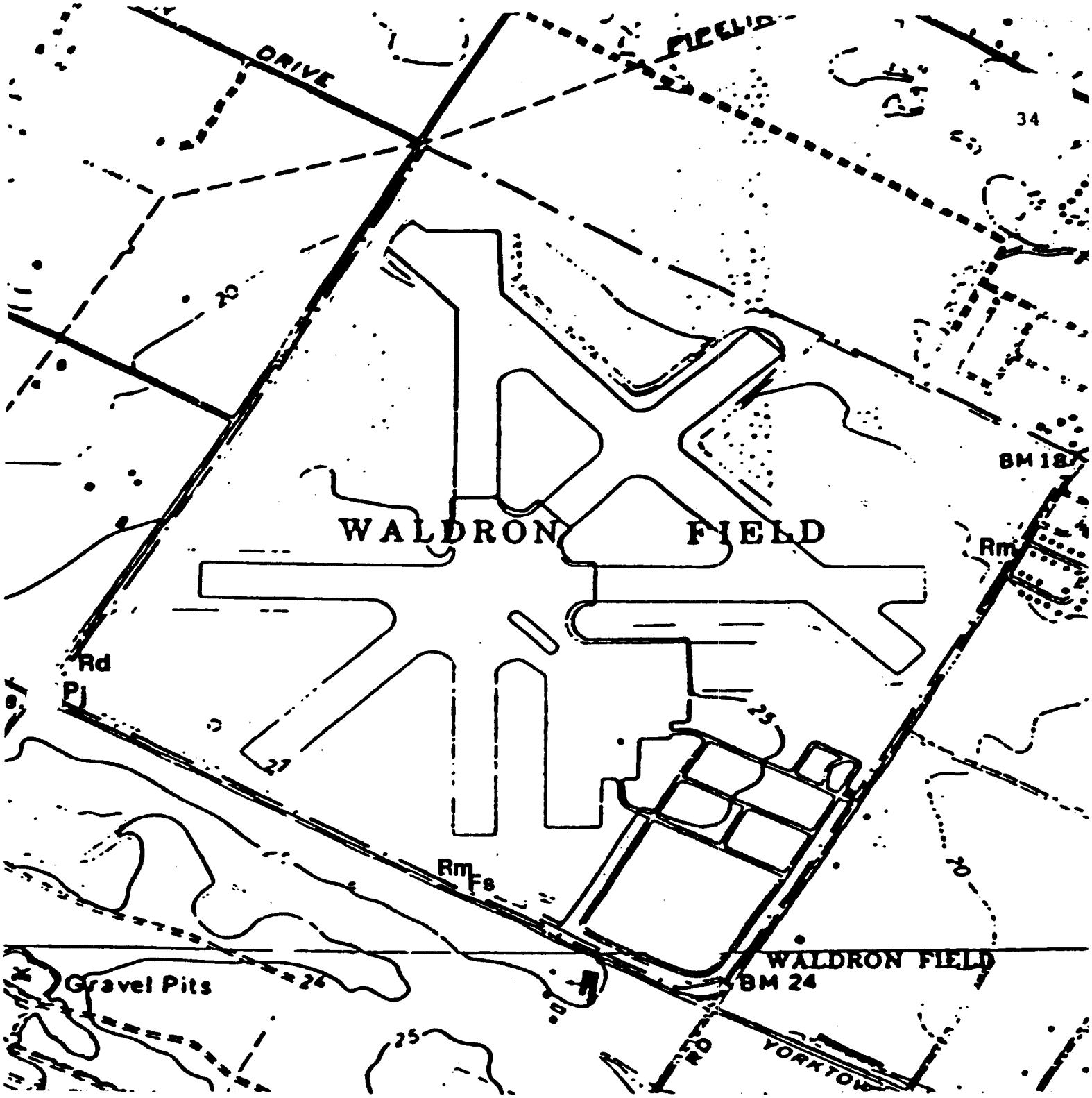

Figure 3. Location of occurrences of Paronychia jonesii (Pj) and Rhynchospora divergens (Rd), Rhynchospora microcarpa (Rm), and Fuirena scirpoidea (Fs), NALF Waldron.

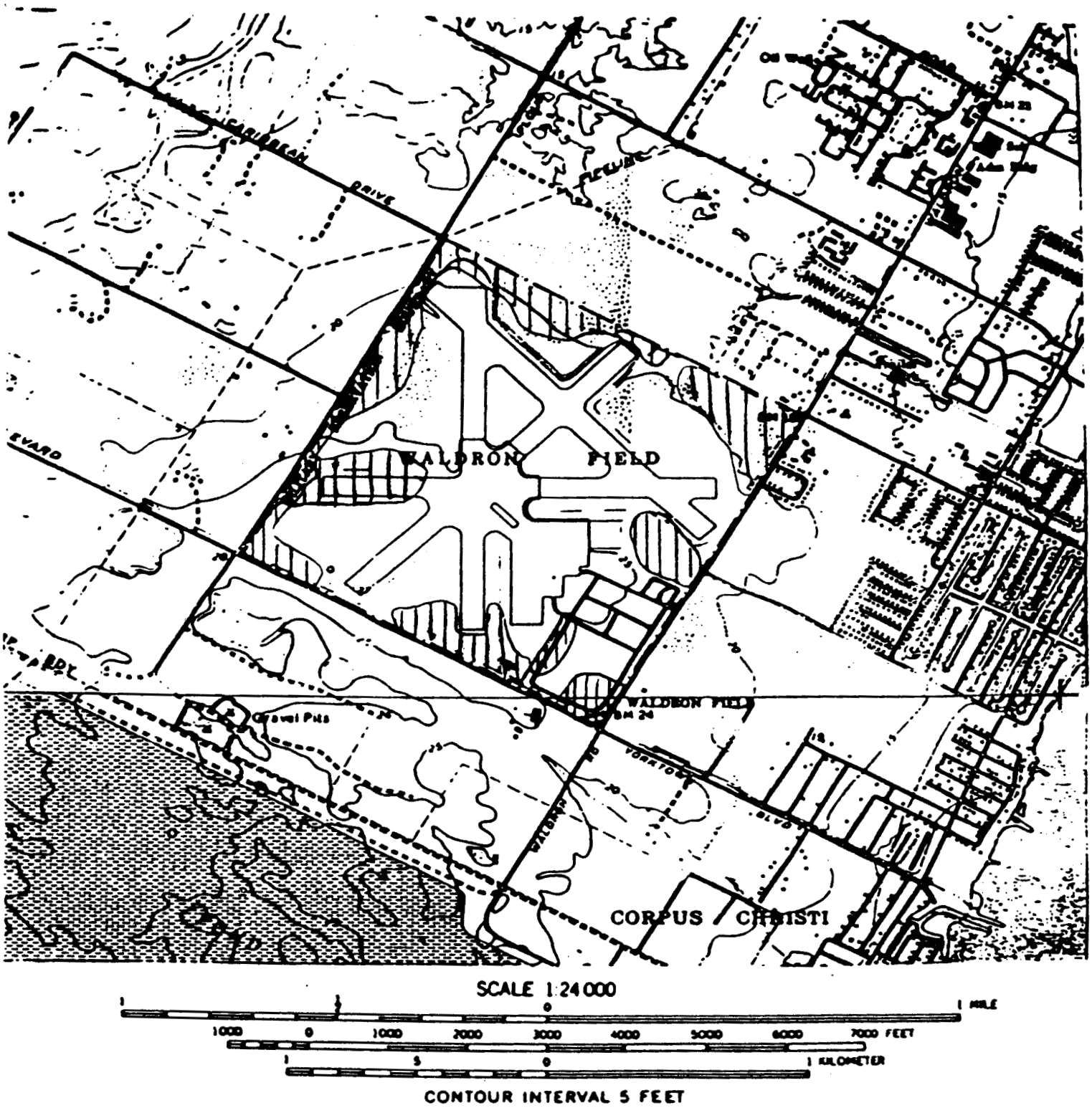

Figure 4. Areas surveyed for rare plant species, etc., NALF Waldron, 25-26 September 1991, 2 April 1992, and 8 June 1992.

NAVAL AUXILIARY LANDING FIELD CABANISS
NUECES COUNTY, TEXAS
SURVEY OF RARE, THREATENED, AND ENDANGERED PLANTS
Final Report, September 1992

Naval Auxiliary Landing Field Cabaniss occupies 844 acres in eastern Nueces County, Texas, on the southern outskirts of the city of Corpus Christi (Figure 1). Topography is generally flat with some gullies present along Oso Creek which forms the southern boundary. Elevation ranges from 31 feet above mean sea level to less than five feet along Oso Creek, which may be tidally influenced.

GEOLOGY/SOILS

The entire installation is underlain by the Pleistocene age Beaumont Formation, which consists mostly of clay and mud of low permeability, high water-holding capacity, high to very high shrink-swell potential, and poor drainage. These clays are mantled in low areas along Oso Creek by more recent alluvial deposits also of a clayey texture.

Soils found in virtually all of the field are deep, dark, calcareous, heavy clay Udic Pellusterts of the Victoria Series. These Vertisols dry and crack in the summer and exhibit slow internal and surface drainage. Along the steep banks of Oso Creek these clays are eroded to subsoil and are somewhat saline.

PLANT COMMUNITIES

Original vegetation of NALF Cabaniss probably consisted of a mid to tallgrass prairie grassland from which trees and other woody plants were largely excluded by periodic wildfires, although some scattered trees were probably found along Oso Creek. This original vegetation has been altered by soil cultivation and by military development, and no intact grasslands remain. Native grasses have largely been replaced by non-native pasture grasses. Cultivation of the soil coupled with fire suppression has allowed numerous trees to become established and in some areas young deciduous woodlands are a conspicuous feature of the landscape. In addition to this mosaic of weedy grasslands and recent-growth deciduous woodlands, a community dominated by salt-tolerant grasses and forbs is present in moist saline soils on low terraces along Oso Creek and its tributaries. Portions of the slope along Oso Creek support a shrubland resembling Tamaulipan thornscrub commonly encountered on rockier sites farther inland. Representatives of these community types were examined on 26 September 1991, 23 April 1992, and 16 June 1992 and a discussion follows.

Grasslands/hay meadows

Most of the grasslands on level areas in the vicinity of the field's runways are regularly mown or maintained as hay meadows. Many of these areas were spot-checked for the presence of rare plant species such as slender rush pea (Hoffmannseggia tenella), lila de los llanos (Anthericum chandleri), and South Texas ragweed (Ambrosia cheiranthifolia) on 23 April 1992 during a period when no runways were active. One portion (area A) in the northwestern corner of the field (Figure 2) was intensively examined in order to determine composition; it is probably representative of other hay lease grasslands. It should be noted that although the area currently functions as a hay meadow past use probably included cultivation.

Important grasses include several non-native species such as Kleberg bluestem (Dichanthium annulatum), silky bluestem (Dichanthium sericeum), Angleton bluestem (Dichanthium aristatum), Johnsongrass (Sorghum halepense) and Rhodesgrass (Chloris gayana). Numerous mostly weedy forbs are also present (Table 1). Poorly drained swales within this grassland are dominated by spikesedges (Eleocharis macrostachya with smaller amounts of Eleocharis montividensis) and a native coreopsis (Coreopsis tinctoria) rather than by halophytic species.

An area with similar site potential but in much different condition was briefly examined. This area lies along the western perimeter south of the northwest end of Runway 13. This area is not maintained as hay lease and is now brush-invaded. Baccharis or Roosevelt weed (Baccharis neglecta) is common, and small sugar hackberry (Celtis laevigata) trees are scattered. The ground layer has not been mown or burned in some time, and the loose accumulation of dead grass leaves to a depth of one foot has suppressed the growth of other species, particularly annual forbs.

Deciduous woodlands

Two deciduous woodlands were examined, one (area B) on a level upland near the east end of the east-west runway, and the other (area C) on gently sloping soils near Oso Creek in the southwestern corner of the installation (Figure 2). At area B, mesquite (Prosopis glandulosa) and sugar hackberry are the most important trees, forming a broken canopy between 15 and 20 feet. These trees are often tied together with a thick mass of weedy vines including Texas snoutbean (Rhynchosia texana), common morningglory (Ipomaea trichocarpa), twinevine (Sarcostemma cynanchoides), and ivy treebine (Cissus incisa). The few shrubs present are also weedy species, such as baccharis or Roosevelt weed and retama (Parkinsonia aculeata), and enough prickly pear cactus (Opuntia lindheimeri) is concealed among the thick growth of non-natives grasses in the ground layer to make walking through such an area

even less inviting. Although numerous forb species are present (Table 2) in openings, most fall into the category of noxious weeds. The vegetation of the ditch bank at the eastern edge of the site is similarly weedy, composed of scattered young fresno (Fraxinus berlandieriana) trees, numerous retama, and a dense cover of non-native grasses.

Area C also supports a mostly deciduous disturbance type woodland. In some portions mesquite is more common and sugar hackberry less common, and large woody plants are more scattered, providing less cover. Prickly pear is abundant among weedy grasses in openings (Table 3), along with a few other shrubs such as narrowleaf elbowbush (Forestiera angustifolia), Trecul yucca (Yucca treculeana), granjeno or spiny hackberry (Celtis pallida), roosevelt weed, and retama. Some young chinaberry (Melia azederach) and Chinese tallow (Sapium sebiferum) trees, as well an unknown legume (Carr #11857), are also present; these aggressive exotics can be expected to become more common in the future. In moister soils this mesquite woodland grades into patches of riparian woodland in which sugar hackberry and fresno (Fraxinus berlandieriana) are common.

Saline wetlands

At area D, in a broad shallow valley between the southern ends of runways 13 and 17, moist to wet saline soils support halophytic wetland vegetation (Table 4). In areas of standing water salt marsh bulrush (Scirpus maritimus) forms a solid stand, replaced on very slightly higher sites by nearly solid and more extensive stands of Gulf cordgrass (Spartina spartinae). Alternately wet and dry flats along the edge of standing water and on broad terraces along Oso Creek support a number of halophytic species including sea oxeye (Borrichia frutescens), glasswort (Salicornia sp.), seashore dropseed (Sporobolus virginicus), saltgrass (Distichlis spicata) shoregrass (Monanthochloe littoralis), and sumpweed (Suaeda linearis).

Blackbrush shrublands

Steep slopes along Oso Creek at area E, near the end of runway 31 in the southeastern corner of the installation, support a mostly evergreen shrubland composed of species more commonly encountered in Tamaulipan thornscrub farther inland. Shrubs such as blackbrush (Acacia rigidula), coyotillo (Karwinskia humboldtiana), coma (Bumelia celastrina), agarito (Berberis trifoliolata), and Berlandier wolfberry (Lycium berlandieri), absent from the rest of the installation, here form an impenetrable thicket along with mesquite and pricklypear. Ground cover is limited by the growth of low shrubs, but the few openings are dominated by bufflegrass.

RARE PLANT SPECIES

No rare plant species have been found on NALF Cabaniss, although based on edaphic and geographic factors, several rare plant species could be expected to occur and were painfully sought during these surveys. Slender rushpea (Hoffmannseggia tenella), a listed endangered species, South Texas ragweed (Ambrosia cheiranthifolia), a Category 1 candidate species, and yellow show (Amoreuxia wrightii), a species tracked by the Texas Natural Heritage Program but without federal status, all occur on Victoria Series soils at a site in western Nueces County. Lila de los llanos (Anthericum chandleri), a category 2 candidate, plains gumweed (Grindelia oolepis), a rare species with no federal status, and black lace cactus (Echinocereus reichenbachii var. albertii), a listed endangered cactus, are also known from the general area and might occur on such soils.

However, land use history may be an overriding factor in determining the presence or absence of these species. Most are probably absent from recently or repeatedly cultivated soils. Most are probably unable to compete with taller non-native grasses such as King Ranch bluestem, Kleberg bluestem, Angleton bluestem, silky bluestem, Johnsongrass, and buffelgrass. However some species, particularly South Texas ragweed, may be tolerant of certain types of disturbance which presumably mimic natural phenomena. It is not clear that any of the disturbances to which NALF Cabaniss has been subjected mimic natural phenomena.

Abundant rainfall during 1991 and 1992 may have been responsible for the vigorous growth of non-native grasses encountered by this investigator in every site visited during these surveys. This dense ground cover probably reduces the likelihood that any of the targeted rare plant species occur on the field. It certainly reduces the likelihood that low-growing plant species will be detected. In fact, the grass cover was so thick that in one area the investigator was even unable to detect a coyote (Canis latrans) until he nearly stepped on it.

Terraces and banks along Oso Creek were examined for the presence of two targeted species that might occur on such saline soils. Neither roughseed seapurslane (Sesuvium trianthemoides, Category 2) nor Kleberg saltbush (Atriplex klebergorum, no federal status) was encountered.

OTHER RARE PLANT SPECIES

Slimleaf milkweed (Asclepias linearis), found along the patrol road near the RC Cola warehouse, was listed in the first interim report (November 1991) as a possible G3S3 species of some interest. However, herbarium research and additional fieldwork have since revealed this species to be more common than stated in the earlier

report. It is perhaps more appropriately ranked G4S4, and has been omitted from this second interim report.

AREAS OF BOTANICAL INTEREST

No areas of even remote botanical interest were encountered during these surveys.

SUMMARY OF SURVEYS

NALF Cabaniss was surveyed for rare plants and areas of botanical interest on 26 September 1991, 23 April 1992, and 16 June 1992. Areas surveyed are indicated in Figure 3.

Table 1. Plant species observed in the grassland/hay meadow at area A, NALF Cabaniss; based on field survey of 23 April 1992 and 16 June 1992.

WOODY PLANTS

Opuntia lindheimeri

GRASSES/SEDGES

Bothriochloa isachaemum
Bothriochloa saccharoides
Chloris ciliata
Chloris gayana
Cynodon dactylon
Cyperus acuminatus
Dichanthium annulatum
Dichanthium aristatum
Dichanthium sericeum
Eleocharis macrostachya
Eleocharis montividensis
Limnodea arkansana
Setaria sp.
Sorghum halepense
Stipa leucotricha

FORBS

Ambrosia psilostachya
Ammoselinum butleri
Ammoselinum popei
Anagallis arvensis
Astragalus brazoensis
Chaetopappa tainturieri
Cirsium texanum
Commelina erecta
Coreopsis tinctoria
Cuscuta sp.
Daucus pusillus
Desmanthus virgatus
Dyssodia tenuiloba
Euphorbia spathulata
Evax verna
Gaillardia pulchella
Galium virgatum
Geranium texanum
Grindelia microcephala
Hedyotis nigricans
Helianthus annuus
Isocoma drummondii
Lathyrus pusillus
Lepidium virginicum
Lesquerella lindheimeri
Lythrum alatum
Malvastrum aurantiacum
Medicago polymorpha
Melilotus albus
Melilotus indicus
Monarda punctata
Neptunia pubescens
Oenothera kunthiana
Oenothera speciosa
Oxalis dillenii
Phyllanthus polygonoides
Plantago rhodosperma
Pyrrhopappus multicaulis
Ratibida columnaris
Rudbeckia hirta
Silene antirrhina
Sisyrinchium pruinosum
Solanum elaeagnifolium
Triodanis perfoliata
Verbena halei
Vicia leavenworthii

Table 2. Plant species observed in the deciduous woodland at area B, NALF Cabaniss; based on field survey of 26 September 1991.

WOODY PLANTS

Baccharis neglecta
Celtis laevigata
Forestiera angustifolia
Opuntia lindheimeri
Parkinsonia aculeata
Prosopis glandulosa
Solanum triquetrum

GRASSES/SEDGES

Bothriochloa ischaemum
Bothriochloa saccharoides
Brachiaria reptans
Cenchrus incertus
Chloris virgata
Cyperus uniflorus
Dichanthium sericeum
Panicum fasciculatum
Setaria geniculata
Sorghum halepense

FORBS

Agalinis heterophylla
Ambrosia psilostachya
Asclepias linearis
Aster subulatus
Baccharis texana
Cissus incisa
Commelina erecta
Cooperia drummondii
Helianthus annuus
Ipomaea trichocarpa
Iva annua
Malvastrum sp.
Melochia pyramidata
Neptunia pubescens
Oxalis drummondii
Parthenium hysterophorus
Physalis sp.
Rhynchosia texana
Ruellia sp. (R. nudiflora?)
Sarcostemma cynanchoides
Sida physocalyx
Sida spinosa
Solanum elaeagnifolium

Table 3. Plant species observed in the deciduous woodland at area C, NALF Cabaniss; based on field survey of 26 September 1991 and 23 April 1992.

WOODY PLANTS

Acacia smallii
Baccharis neglecta
Celtis laevigata
Celtis pallida
Eupatorium odoratum
Forestiera angustifolia
Fraxinus berlandierana
Lantana horrida
Melia azederach
Opuntia leptocaulis
Opuntia lindheimeri
Parkinsonia aculeata
Prosopis glandulosa
Sapium sebiferum
Yucca treculeana
Zanthoxylum fagara
undetermined legume (11857)

GRASSES/SEDGES

Bromus unioloides
Chloris gayana
Chloris virgata
Dichanthium spp.
Eriochloa contracta
Eriochloa punctata
Limnodea arkansana
Panicum maximum
Panicum obtusum
Setaria leucopila
Sorghum halepense
Stipa leucotricha

FORBS

Abutilon sp.
Ambrosia psilostachya
Ambrosia trifida
Aster subulatus
Borrichia frutescens
Cirsium texanum
Cissus incisa
Commelina erecta
Galium aparine
Grindelia sp.
Helianthus annuus
Ipomaea trichocarpa
Isocoma drummondii
Iva annua
Melilotus indicus
Mirabilis albida
Monarda citriodora
Oenothera speciosa
Ratibida columnaris
Salvia coccinea
Sarcostemma cynanchoides
Setcreasea buckleyi
Sida spinosa
Solanum elaeagnifolium
Teucrium canadense
Verbena sp.
Vicia leavenworthii

Table 4. Plant species observed in wetlands on saline soils, area D, NALF Cabaniss; based on field surveys of 26 September 1991, 23 April 1992, and 16 June 1992.

WOODY PLANTS

Lycium carolinianum

GRASSES/SEDGES/GRAMINOIDS

Distichlis spicata
Leptochloa fascicularis
Monanthochloe littoralis
Scirpus maritimus
Spartina spartinae
Sporobolus virginicus
Teucrium canadense
Typha sp. (T. domingensis?)

FORBS

Aster subulatus
Borrichia frutescens
Salicornia sp.
Suaeda linearis

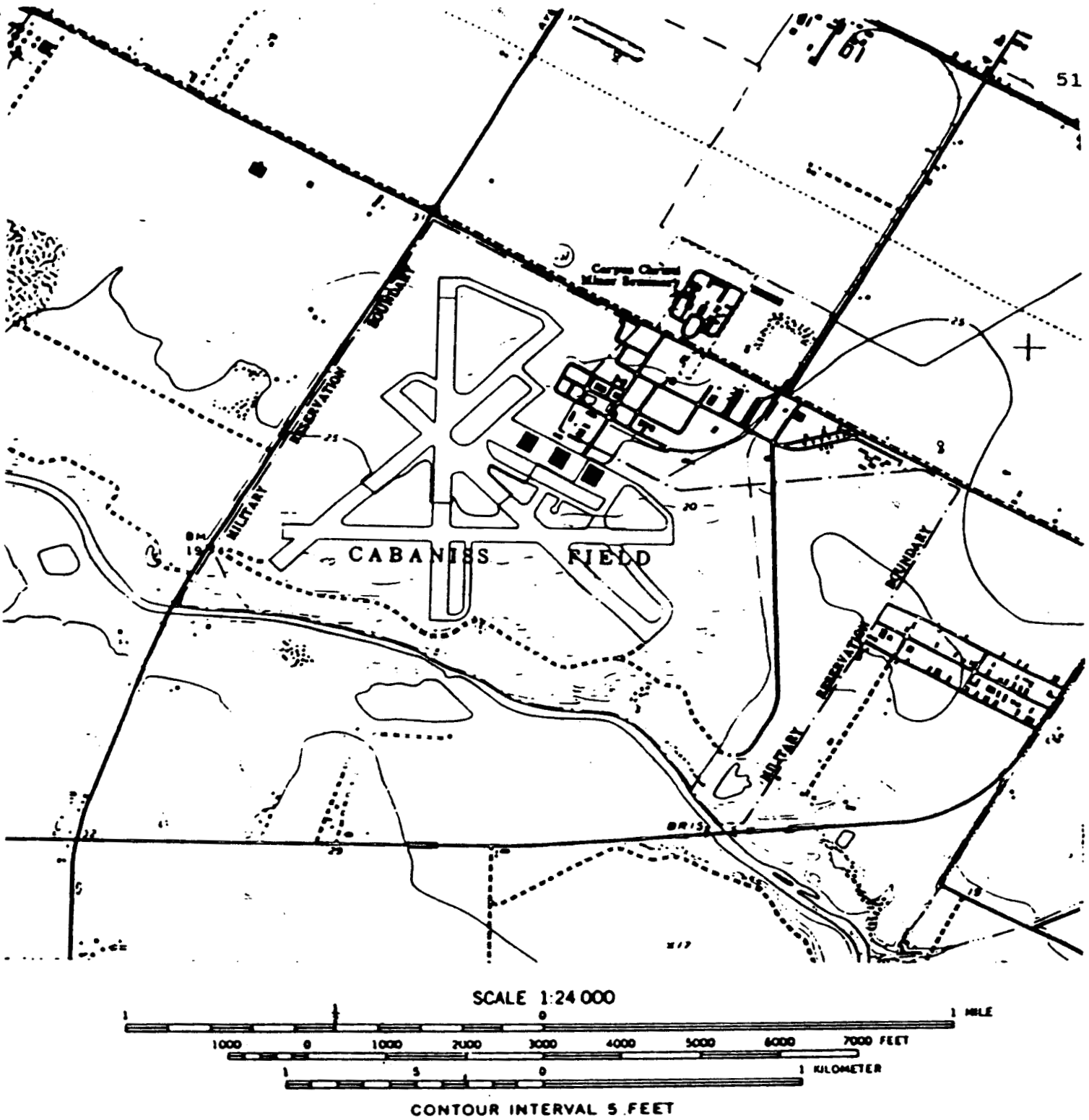

Figure 1. Naval Auxiliary Landing Field Cabaniss; from Oso Creek NW 7.5' Quadrangle (USGS, 1975).

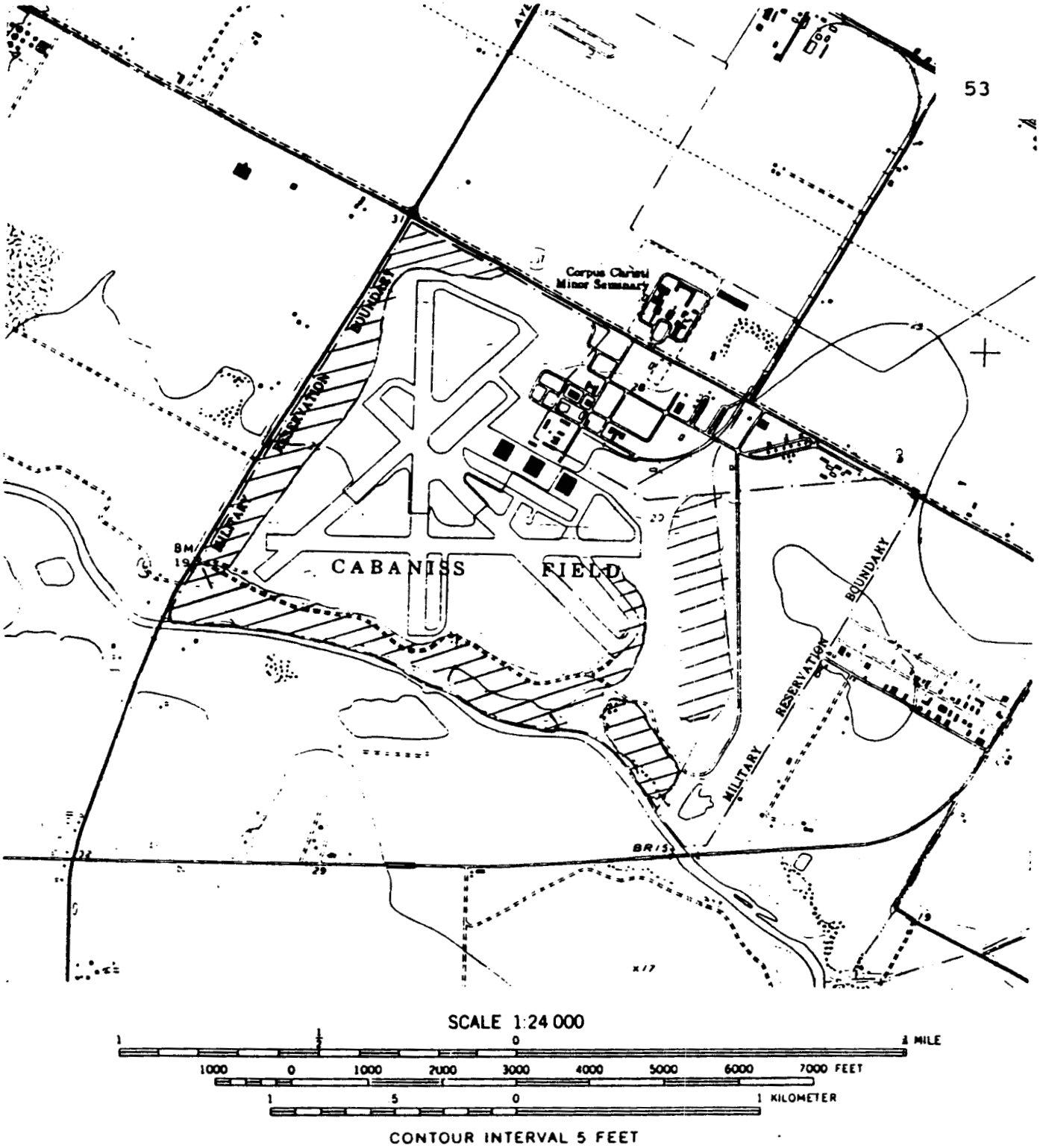

Figure 3. Areas surveyed for rare plants, etc., NALF Cabaniss, 26 September 1991, 23 April 1992, and 16 June 1992.

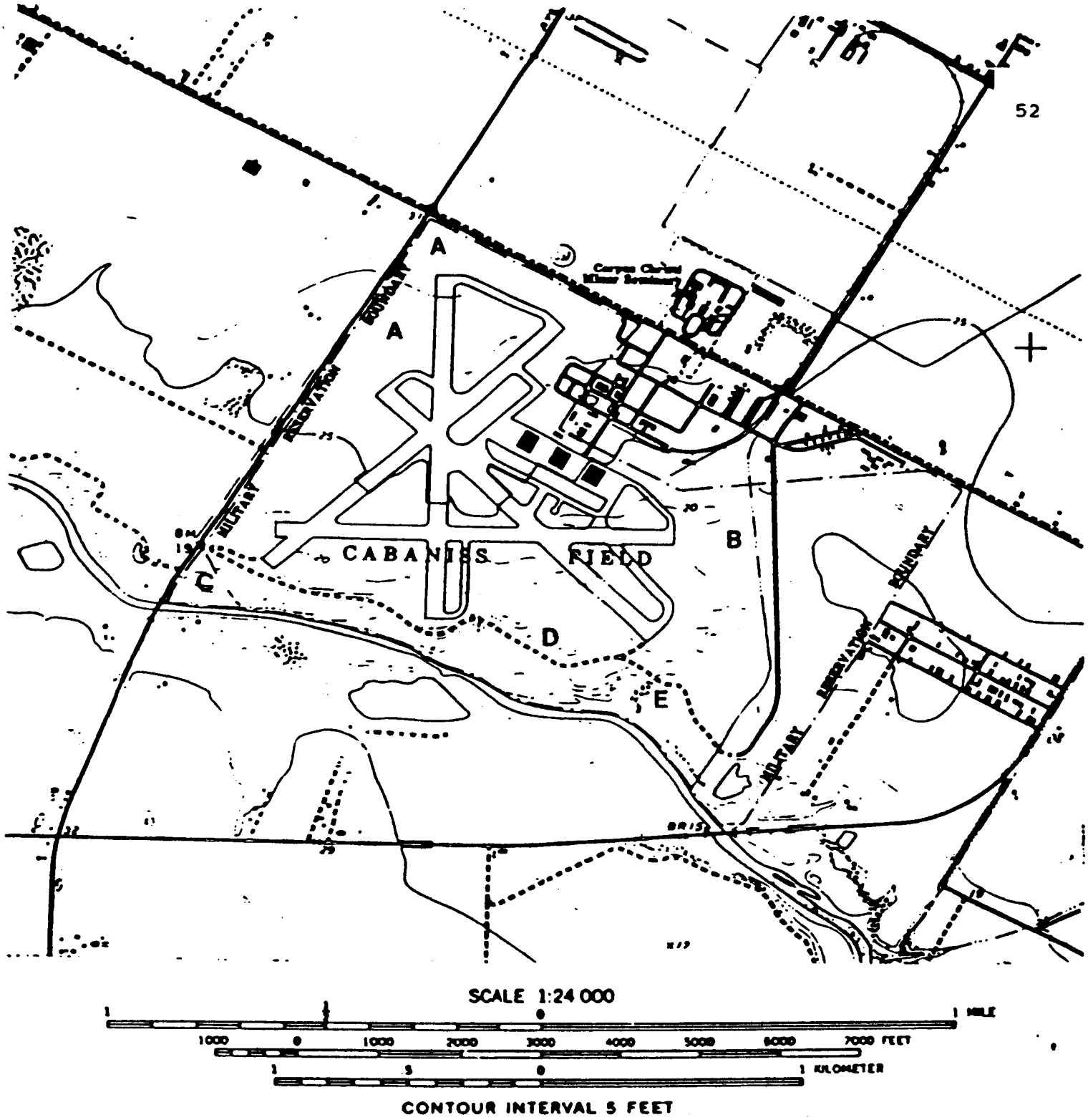

Figure 2. Some representative plant communities at NALF Cabaniss: grassland/hay meadow at area A; deciduous woodlands at areas B and C; wetland on saline soils, area D; blackbrush shrublands, area E.

SELECTED REFERENCES

Correll, D. S. and M. C. Johnston. 1970. Manual of the vascular plants of Texas. Texas Research Foundation, Renner. 1881 pp.

Gillespie, T. S. 1976. The flowering plants of Mustang Island, Texas, an annotated checklist. Texas J. Sci. 27: 131-148.

Gould, F. W. 1975. The grasses of Texas. Texas A & M University Press, College Station. 653 pp.

Gould, F. W. and T. W. Box. 1965. Grasses of the Texas Coastal Bend. Texas A & M University Press, College Station. 186 pp.

Hatch, S. L., K. N. Gandhi, and L. E. Brown. 1990. Checklist of the vascular plants of Texas. Texas Agricultural Experiment Station, Texas A & M University, College Station. 158 pp.

Hill, S. R. 1982. Distributional and nomenclatural notes on the flora of the Texas Coastal Bend. Sida 9(4): 309-326.

Johnston, M C. 1990. The vascular plants of Texas: a list, updating the manual of the vascular plants of Texas. Second edition. Privately published, Austin. 107 pp.

Jones, F. B. 1977. Flora of the Texas Coastal Bend. Second edition. Welder Wildlife Foundation, Sinton. 262 pp.

Lonard, B. I., J. H. Everitt, and F. W. Judd. 1991. Woody plants of the Lower Rio Grande Valley, Texas. Miscellaneous Publication Number 7, Texas Memorial Museum, The University of Texas at Austin. 179 pp.

COOPERATIVE AGREEMENT
FOR
CONSERVATION AND DEVELOPMENT OF FISH & WILDLIFE RESOURCES
AND
NATURAL HABITAT
ON
NAVAL AIR STATION, CORPUS CHRISTI, TEXAS

In accordance with Public Law 85-337 of 28 February 1958, Public Law 85-797 of 15 September 1960, Public Law 90-465 of 8 August 1968, Public Law 92-522 of 21 October 1972, Public Law 93-205 of December 1973, Public Law 93-452 of 18 October 1974, and Public Law 93-280 of 10 May 1975, the Department of the Navy, the Department of Interior and the State of Texas, through their duly designated representatives whose signatures appear below, approve the Cooperative Agreement and Plan for: (1) the protection, development and management of fish and wildlife resources and natural habitat; (2) the protection of rare, endangered or threatened flora and fauna and (3) the control of off-road vehicle traffic on the lands under the jurisdiction of the Naval Air Station, Corpus Christi, Texas.

APPROVED BY: _____ DATE: DEC [illegible]
Regional Director
US Fish & Wildlife Service
US Department of Interior
Dennis Chaves Building
US Court House
500 Gold Avenue, SW
Albuquerque, NM 87103

APPROVED BY: _____ DATE: 7-19-84
Executive Director
Parks & Wildlife Department
State of Texas
4200 Smith School Road
Austin, TX 78744

APPROVED BY: J. D. HUNDERSURK DATE: 23 [illegible]
Commanding Officer
Naval Air Station
Corpus Christi, TX 78419

Incl(3)

PURPOSE

The purpose of this Cooperative Agreement is to provide for a cooperative effort by the Executive Director, Parks and Wildlife Department, State of Texas; Regional Director, Fish and Wildlife Service, US Department of the Interior; and the Commanding Officer, Naval Air Station, Corpus Christi, Texas, Department of the Navy, in the conservation and development of fish and wildlife resources and the natural habitat on US Naval Air Station, Corpus Christi, Texas.

POLICY

The mission of the Station is to maintain and operate facilities and provide services and material to support operations of aviation activities and units of the operating forces of the Navy and other activities and units as designated by the Chief of Naval Operations. It is agreed by all parties that the action of this agreement will in no way interfere with the primary mission of the Station or the Auxilary Landing Fields.

The Naval Air Station has approximately 3,666 acres of land and water under its jurisdiction. The land is located in three different locations and is comprised of the Naval Air Station and its Auxiliary Landing Fields Cabaniss and Waldron. Biological communities typical of the Southern Gulf Coastal Plain and the various flora and fauna that comprise these communities exist on these lands. The cooperators agree to manage the communities to achieve desired human benefits by scientifically sound fish and wildlife management as set out in approved natural resources management plans. These benefits may include, but are not limited to, the preservation of rare and endangered species and/or communities, the production of fish and wildlife for human consumption and/or observation, and the reduction of damage or potential for damage by wildlife to Station property.

This agreement will be in effect indefinitely but it may be modified or amended by mutual agreement by the authorized representatives of the three agencies. The Commanding Officer upon written notice to the Regional Director and the Executive Director, shall have the right to terminate this agreement, in whole or in part at any time when, in the opinion of the Commanding Officer, the primary

COOPERATIVE AGREEMENT
FOR
CONSERVATION AND DEVELOPMENT OF FISH & WILDLIFE RESOURCES
AND
NATURAL HABITAT
ON
NAVAL AIR STATION, CORPUS CHRISTI, TEXAS
AMENDMENT NO. 1

Pages 3-7. Inter-agency Cooperation - The following conditions apply to US Fish and Wildlife Service assistance:

A. The Service may participate in the following activities without reimbursement.

1. Law Enforcement
2. Activities the Service is mandated to carry out under the Endangered Species Act, National Environmental Policy Act and other specific Federal laws.
3. Technical Assistance to help reduce migratory bird/aircraft conflicts.
4. Provision of fish (if available) for approved stocking plans.
5. Participation in annual meetings.

B. The Service may participate in other activities outlined in this agreement subject to the following:

1. The Station has first requested the needed assistance from the Texas Parks and Wildlife Department and that agency cannot accomodate the request.
2. The Service has personnel available to provide the requested assistance.
3. The Station agrees to reimburse the Service for salary and travel expenses in providing the requested assistance.

Approved by:

Regional Director, US Fish & Wildlife Service — (Date)

Executive Director — 4-1-85 (Date)
Parks and Wildlife Department, State of Texas
4200 Smith School Road, Austin, TX 78744

J. D. FUNDERBURK — 12 FEB 1985 (Date)
Commanding Officer
Naval Air Station, Corpus Christi, Texas 78419

Off-Road Recreational Vehicles: The Commanding Officer agrees to provide for control of off-road recreational vehicles on Station lands. The Regional Director agrees to provide guidance in formulating such controls in accordance with Federal laws when requested.

Licenses, Permits, Fees and Safety Courses: The Commanding Officer agrees that licenses, permits and fees for the privilege of hunting and/or fishing shall be in accordance with applicable military regulations and with the laws of the State of Texas and the Unites States. Funds generated as the result of the sale of Station permits will be budgeted in annual increments and utilized for development and improvement of the Station program.

Little land is available for hunting, but if hunting is allowed in the future, all hunters must have successfully completed a State approved hunter safety course; or pass an approved hunter safety course as given by Station personnel at no cost to the participant.

Management Plan: A Long Range Fish and Wildlife Management Plan for the conservation and development of the resources of the Station will be prepared by Southern Division, Naval Facilities Engineering Command, Charleston, SC and coordinated with the cooperators prior to implementation.

REVISION

This agreement is subject to amendment or revision as agreed upon by all participating parties. Action to amend or revise may be initiated by any party.

Control and Abatement of Pollution: It is mutually agreed and understood that the term "pollution" shall mean harmful conditions or materials defined by the applicable laws and regulations pertaining to the jurisdiction of the area under consideration and that the appropriate laws and regulations of the Federal Government shall be those which apply to the Station.

The Station agrees to identify any on-Station sources of pollution which are within its capability to identify, to utilize the advice, services and assistance of appropriate local or Federal Agencies, and to initiate and support budgetary or other actions for approval by higher authority in order to obtain the facilities and funds required for control or abatement of such pollution. Within the limits of available funds and resources, the Station agrees to control the release of pollutants into the Station environment or surrounding environment so that desirable flora, fauna and the natural habitat of the Station and ALF's, and surrounding areas will not be harmed.

The US Fish and Wildlife Service and the State of Texas agree, within the limits of available funds and resources, to assist appropriate agencies in the identification of sources of pollution exterior to the Station which may be harmful to the flora, fauna and natural habitat of the Station and ALF's, and where lawful to do so, to initiate or support action to control such sources.

Annual Meeting: Annual meetings will be held between the signatory agencies in April of each year in order to review progress and to prepare an annual increment and plan of work for the coming year. The Commanding Officer agrees to coordinate a specific date for the meeting and to provide a meeting place on the Station. The attendees will bring written drafts covering the operations and progress of the preceding year and plans for the coming year. The annual plans will include (a) fish and wildlife habitat improvement and development, (b) provisions for balanced ecological conditions, (c) regulated systematic harvests, (d) provisions for stocking or restocking of fish and wildlife (as necessary), (e) estimated costs and professional services require, and (f) amount and sources of funds available to implement the annual increment. The Command Officer agrees to produce and publish a report of this meeting and distribute it to the Regional Director and Executive Director for review and signature.

Environmental Education: Subject to the limitations of available funds and resources and if not interfering with the mission and functions of the Station, it will promote a program to stimulate knowledge, interest and activity among military and Federal civil service personnel who voluntarily exhibit interest in such a program.

Consistant with the requirements of safety and security, the Station is available for studies by organizations and individuals accredited by the Federal Government or the State of Texas in matters related to Natural Resource Conservation.

Several areas on the Station are available for temporary use by Scouts and Explorers for primative camping, nature studies, and outdoor learning experiences. It is agreed that the Station's support of Scouting is in the national interest, and it is desirable that it be promoted, provided that the young people are instructed and guided in a manner such that the flora and fauna are not damaged or destroyed, and such that they acquire an understanding of, and appreciation for, the conservation of fish and wildlife resources in their natural habitat.

Endangered Species: The US Fish and Wildlife Service, in cooperation with the Texas Parks and Wildlife Department, will assist with development of a list of Federal and State endangered and threatened species that could be found on the installation and identify the habitats that would support those species. The US Fish and Wildlife Service and the State of Texas will make recommendations for actions that will enhance these habitats where possible and feasible. The Station agrees to make a concerted effort to follow the recommendations.

Coordination: The office of the Public Works Officer at the Naval Air Station will be the office of contact for cooperating personnel from either agency visiting the installation in relation to matters involving the management of fish and wildlife.

The Security Officer will be the office of contact for persons from either agency visiting the Station or the NALF's in relation to matters involving fish and wildlife law enforcement.

necessary to maintain a sound fishery management program, providing personnel are available. The visiting biologist will furnish advice on all phases of the fish management program at the installation and will provide assistance in inventory, poisoning, stocking, feeding, weed control, and other manipulation of aquatic habitat as required or as available. Fish, excluding exotics, for stocking station waters will be supplied by the State of Texas. Primary responsibility will rest with the installation to measure use and success of stocking programs with assistance from biologists as available. Information acquired on the stocking will be used as justification for continuing US Fish and Wildlife and State involvement.

Development and improvement of lakes and maintenance of optimum fish production commensurate with the installation primary function, through control of aquatic vegetation and animal life as required, will be an objective of installation fish management operations.

Wildlife Management: The State of Texas Parks and Wildlife Department will provide technical advice and assistance to the installation in wildlife management. Visits will be made as requested or as necessary to maintain a sound wildlife management program providing personnel are available. The visiting biologist will provide advice and assitance as appropriate in all aspects of wildlife management. Wildlife biologists of the US Fish and Wildlife Service will furnish additional advice and/or assistance in this program when requested by the State or the Commanding Officer. No stocking of wildlife is contemplated. Where wildlife populations exist at levels which interfere with training operations, safety, personnel, equipment, or resource management functions, control of such nuisance wildlife will be undertaken by wildlife management personnel through manipulation of habitat, live trapping removal, or other appropriate means. If the wildlife species involved are migratory, US Fish and Wildlife Service biologists will provide advice and assistance. The installation objective will be development and improvement of habitats to provide optimum conditions for wildlife in consonance with the installation's primary mission.

mission of the Station or other requirements of national defense makes it necessary to do so, in which event the Regional Director and/or Executive Director, shall have the right to terminate those remaining parts of the agreement, the feasibility of which, in their opinion, are materially affected. In addition, either the Commanding Officer, Regional Director, or Executive Director may terminate this agreement for other reasons, provided written notice is given 30 days prior to termination.

This agreement will become a part of the master plan for the conservation of renewable natural resources for the Station. This master plan will include measures for the conservation of soil, water, grassland, fish, wildlife, and grounds maintenance.

ACCESS

Cooperating Agencies: Officers of the US Fish and Wildlife Service and the State of Texas shall have access to the Naval Air Station subject to the knowledge and consent of the Commanding Officer and commensurate with Station regulations. Employees of the Fish and Wildlife Service and the State who require access to the Station for purposes of implementing this agreement will be welcomed, but such access is subject to the knowledge and consent of the Commanding Officer.

Public: The public will be allowed to participate in the harvest of fish on the Station equally with military personnel except where such public participation must be limited because of military objectives as determined by the Commanding Officer.

INTER-AGENCY COOPERATION

Law Enforcement: Exclusive jurisdiction exists on 2050 acres of the installation. [The remainder of the area has propriatory jurisdiction.] The laws of the State of Texas relative to hunting and fishing are applicable on these facilities and are enforceable by both State and Federal officials.

Fish Management: The Regional Director, US Fish and Wildlife Service and Executive Director, State of Texas Parks and Wildlife Department will provide technical advice and assistance to the installation in fishery management. A minimum of one visit to the installation will be made annually by fisheries management biologist provided personnel are available or higher priority work does not preclude this. Other visits will be made as requested or as

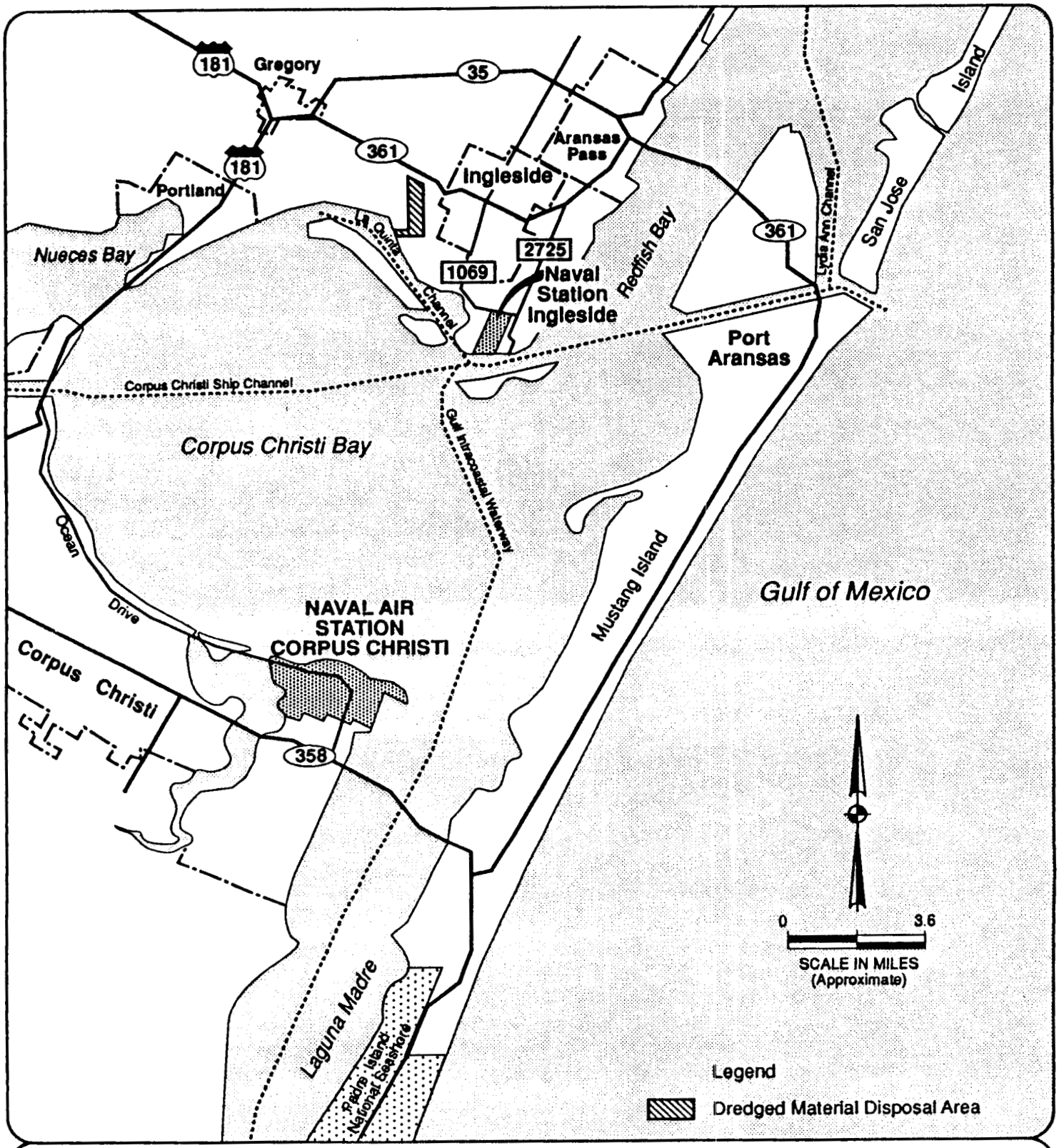

Figure 1-25. Existing Navy Dredged Material Disposal Area (U.S. Navy, 1988)

Source:Draft EIS, March 1994 COMINEWARCOM by SOUTHNAVFACENGCOM

John Hall, *Chairman*
Pam Reed, *Commissioner*
Peggy Garner, *Commissioner*
Anthony Grigsby, *Executive Director*

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

September 8, 1993

U.S. Dept of the Navy/Naval Air Station
Terry Boone, Env Program Director
Public Works Dept, Code 189
Corpus Christi, Texas 78419-5000

RE: U.S. DEPARTMENT OF THE NAVY
MAJ AMD; Permit HW50038

Enclosed is a copy of:

( ) a Permit for a wastewater treatment facility issued pursuant to Chapter 26 of the Texas Water Code.

In order that you may comply with monitoring requirements for your waste discharge permit, self-reporting forms and instructions will be forwarded to you from the Watershed Management Division. Please discontinue the use of any old self-reporting forms that you may have and wait to fill out forms until you receive new ones from the TWC which reflect your new monitoring requirements. For further information, please contact Mary Taylor at (512) 463-8244.

When your facility is placed in operation or goes into a new phase, please use the attached "Report of Progress of Construction of Wastewater Treatment Facilities" form. This form will advise this agency and our district office of the completion or placement in operation of proposed facilities in accordance with the special provision incorporated into the permit.

(✓) a Permit for a hazardous or solid waste facility issued pursuant to Art. 4477-7, Texas Revised Civil Statutes. Your attention is directed to Commission Rule 335.5 which may be applicable to your facility.

( ) a Permit for a waste disposal well or an injection well issued pursuant to Chapter 27 of the Texas Water Code. In accordance with the Texas Water Code, you must file a copy of the permit with the city and county health authorities.

( ) a Permit for a municipal solid waste facility issued pursuant to Chapter 361, Texas Health and Safety Code. The Site Development Plan, the Site Operating Plan, and all other documents and plans prepared and submitted to support the permit application shall be considered as a part of this permit and shall be considered as operational requirements of this permit.

Sincerely,

Gloria A. Vasquez

Gloria A. Vasquez, Chief Clerk

GAV:de

cc: TWC District Office 12

CURTIS TUNNELL
EXECUTIVE DIRECTOR

TEXAS HISTORICAL COMMISSION

P.O. BOX 12276 AUSTIN, TEXAS 78711 (512)463-6100

DEPARTMENT OF ANTIQUITIES PROTECTION

June 29, 1993

J. E. Bittle
Commander, US Navy
Public Works Officer
Department of Navy
Naval Air Station
Corpus Christi, Texas 78419-5000

Re: Comments on Draft Phase I Archaeological Investigations of the Corpus Christi Naval Air Station, and Waldron and Cabaniss Naval Auxillary Landing Fields Nueces County, Texas (Navy, F2, F20, F16) Attn: Ms. Jan L. Heinen

Dear Commander Bittle:

Thank you for the opportunity to review the above referenced cultural resource report. After reviewing the report, our office notes that archeological sites 41NU270, 41NU271, and 41NU273 have been disturbed by previous construction. We have determined that these sites are ineligible for inclusion in the National Register of Historic Places (NRHP). Since there are no development plans near the remaining sites (41NU272 and 41NU274), we are unable to concur with the author's recommendation that Phase II/archeological testing is needed for these sites. Rather, our office recommends that 41NU272 and 41NU274 be avoided, and that the Navy develop a protection plan for the sites in consultation with our office. The Navy initiate should Section 106 consultation with our office in the future if your agency plans to develop the area where the sites are located.

With regard to the report, please have the author provide the full citation for Dr. Robert Ricklis' article for the final copy of this report. The citation should read: 1992a Aboriginal Karankawan Adaptation and Colonial Period Acculturation: Archeological and Ethonohistorical Evidence. Bulletin of Texas Archeolgical Society, Vol. 63:211-244. Please also have the auther complete the attached Abstracts in Texas Archeology form with the submission of the final report.

If you have any questions, please contact the reviewer of this project, Sergio Iruegas of our staff, at 512/463-5419.

Sincerely,

James E. Bruseth, Ph.D.
Deputy State Historic Preservation Officer

Timothy K. Perttula, Ph.D.
Assistant Director for Antiquities Review

The State Agency for Historic Preservation

Encl (5)

DEVELOPMENT PLANS REQUIRING SECTION 106
NATIONAL HISTORIC PRESERVATION ACT (NHPA) COMPLIANCE

The following facility projects have completed section 106 review and received No Adverse Effect determinations. The projects were subject to conditions set by the State Historic Preservation Officer (SHPO). The Advisory Council on Historic Preservation concurred with the determinations of the SHPO. All conditions were based upon the Secretary of the Interior's Standards for Rehabilitation (see attached). Several other projects undergoing review resulted in No Effect determinations either by scope of work or because the building was found Not Eligible to the National Register of Historic Places.

HANGAR 41 (R1-90) LEAN-TO AND SIDING
HANGAR 42, LOAN STAR GSE WAREHOUSE
HANGAR 44,45,46 (C9001) ROOF AND SIDING
HANGARS 51-58 (R22-87 THRU R26-87), EXTERIOR SIDING
BUILDING 1, HEADQUARTERS, TELEPHONE EXCHANGE BUILDING (C8-87)
BUILDING 3 (R10-86), DRYVIT SIDING
BUILDING 10, REPAIRS including steel windows
BUILDING 19, ELEVATOR ADDITION
BUILDING 37, GENERATOR BUILDING
BUILDING 39, DRYVIT SIDING
BUILDING 100, HVAC RENOVATION
BUILDING 104, NEW ADDITION
B-22 SEAPLANE RAMP, WOOD PIER AND RECREATION AREA
PIER B-1, SMALL CRAFT BERTHING PIER RENOVATION

OTHERS IN-PROGRESS/PENDING: BUILDING 22, REPAIR OF ROOF TRUSS SYSTEM
BUILDING 332, CATHOLIC CHAPEL ADDITION

PROJECTS ON HOLD DUE TO ADVERSE EFFECT DETERMINATION: DEMO SEAPLANE RAMPS AND BREAKWATER REPAIR/DEMOLITION

PROJECTS UNRESOLVED: BUILDING 37 AND SOQ 12 RENOVATIONS

OTHER PROJECTS DUE TO SHPO: HANGARS 46 AND 47 EXTERIOR SIDING
ALL ASBESTOS ABATEMENT PROJECTS
BUILDING 11 (DLA) RENOVATIONS
PROJECTS DUE TO ADVISORY: DEMO BUILDING 1244

Please note: Currently all projects go through the Section 106 review on a case-by-case basis. As soon as possible a Programmatic Agreement (see attached) will be signed that will be a blanket agreement with case-by-case only for special situations. SOUTHNAVFACENGCOM is responsible for preparing the final draft and initiating final steps for the Programmatic Agreement which will be based upon the new Cultural Resources Management Plan.

encl(6)

NPS Form 10-900
(Rev. 10-90)

OMB No. 1024-0018

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name __Ninth Street Historic District_____

other names/site number __N/A_____

2. Location

street & number ____Ninth Street, NAS Corpus Christi_____ not for publication ___N/A_____

city or town __Corpus Christi_____vicinity __x_____

state __Texas_____ code __TX_____ county __Nueces_____code __355____ zip code _78419__

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this ____ nomination ____ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ____ meets ____ does not meet the National Register Criteria. I recommend that this property be considered significant ___ nationally _X_ statewide _X_ locally. (___ See continuation sheet for additional comments.)

_____ _____
Signature of certifying official Date

_____
State or Federal agency and bureau

In my opinion, the property ____ meets ____ does not meet the National Register criteria. (___ See continuation sheet for additional comments.)

_____ _____
Signature of commenting or other official Date

_____
State or Federal agency and bureau

_____
Navy Federal Preservation Officer

4. National Park Service Certification

I, hereby certify that this property is:

____ entered in the National Register _____
___ See continuation sheet.

____ determined eligible for the _____
National Register
___ See continuation sheet.

____ determined not eligible for the _____
National Register

____ removed from the National Register _____

____ other (explain): _____

_____ _____
Signature of Keeper Date of Action

encl (7)

__Ninth Street Historic District__
Name of Property

_Nueces County, Texas_____
County and State

5. Classification

Ownership of Property (Check as many boxes as apply)

___ private
___ public-local
___ public-State
_X_ public-Federal

Category of Property (Check only one box)

___ building(s)
_X_ district
___ site
___ structure
___ object

Number of Resources within Property
(Do not include previously listed resources in the count).

Contributing	Noncontributing	
__5__	__0__	buildings
__0__	__0__	sites
__0__	__0__	structures
__0__	__0__	objects
__5__	__0__	Total

Number of contributing resources previously listed in the National Register ___N/A____

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

__Historic Resources of NAS Corpus Christi_____

6. Function or Use

Historic Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

Current Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

7. Description

Architectural Classification (Enter categories from instructions)

__LATE 19TH AND EARLY 20TH CENTURY_____
__REVIVALS/Colonial Revival_____
__OTHER/Minimal Traditional_____

Materials (Enter categories from instructions)

foundation	_concrete_____
roof	_asphalt_____
walls	_asbestos_____
	_wood_____
other	_wood_____

Narrative Description
(Describe the historic and current condition of the property on one or more continuation sheets.)

__Ninth Street Historic District_
Name of Property

__Nueces County, Texas_____
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

_X__ A — Property is associated with events that have made a significant contribution to the broad patterns of our history.

____ B — Property is associated with the lives of persons significant in our past.

____ C — Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.

____ D — Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations
(Mark "X" in all the boxes that apply.)

____ A — owned by a religious institution or used for religious purposes.

____ B — removed from its original location.

____ C — a birthplace or a grave.

____ D — a cemetery.

____ E — a reconstructed building, object, or structure.

____ F — a commemorative property.

_X__ G — less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions).
_Military_____

Period of Significance
__1942 - 1947_____

Significant Dates
__1942_____

Significant Person
(Complete if Criterion B is marked above)
__N/A_____

Cultural Affiliation
__N/A_____

Architect/Builder
_Architect/Robert and Co., Atlanta_____
_Builder/Columbia Construction Co.;_____
_Brown and Root; Warren S. Bellows____

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)
___ preliminary determination of individual listing (36 CFR 67) has been requested.
___ previously listed in the National Register
___ previously determined eligible by the National Register
___ designated a National Historic Landmark
___ recorded by Historic American Buildings Survey # _____
___ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
___ State Historic Preservation Office
___ Other State agency
_X_ Federal agency
___ Local government
___ University
___ Other

Name of repository: __NAS Corpus Christi_____

__Ninth Street Historic District____ _Nueces County, Texas_____
Name of Property County and State

10. Geographical Data

Acreage of Property _Approx. 4.59 acres__

UTM References
(Place additional UTM references on a continuation sheet)

	Zone	Easting	Northing		Zone	Easting	Northing
_A._	14	671165	3063795	__B._	14	671285	3063745_
_C._	14	671165	3063510	__D._	14	671080	3063595_

____ See continuation sheet.

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title___Philip Thomason/Principal_____

organization__Thomason and Associates_____date_June, 1993_____

street & number__P.O. Box 121225_____telephone__615-383-0227_____

city or town___Nashville_____state__TN_____zip code __37212_____

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A USGS map (7.5 or 15 minute series) indicating the property's location.

A sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional Items
(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name _NAS Corpus Christi _____

street & number_____telephone_(512) 939-2159_____

city or town_____Corpus Christi_____state_TX__ zip code _78419-5000___

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

NPS Form 10-900
(Rev. 10-90)

OMB No. 1024-0018

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name __Lexington Boulevard Historic District_____

other names/site number __N/A_____

2. Location

street & number ____Lexington Boulevard/Avenue D, NAS Corpus Christi_____ not for publication ___N/A_____

city or town __Corpus Christi_____vicinity __x_____

state __Texas_____ code __TX_____ county __Nueces_____code __355____ zip code _78419__

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this ____ nomination ____ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ____ meets ____ does not meet the National Register Criteria. I recommend that this property be considered significant ___ nationally _X_ statewide _X_ locally. (___ See continuation sheet for additional comments.)

_____ _____
Signature of certifying official Date

_____
State or Federal agency and bureau

In my opinion, the property ____ meets ____ does not meet the National Register criteria. (___ See continuation sheet for additional comments.)

_____ _____
Signature of commenting or other official Date

_____
State or Federal agency and bureau

_____
Navy Federal Preservation Officer

4. National Park Service Certification

I, hereby certify that this property is:

____ entered in the National Register _____
___ See continuation sheet.
____ determined eligible for the National Register _____
___ See continuation sheet.
____ determined not eligible for the National Register _____
____ removed from the National Register _____
____ other (explain): _____

_____ _____
Signature of Keeper Date of Action

__Lexington Boulevard Historic District____ _Nueces County, Texas_____
Name of Property County and State

5. Classification

Ownership of Property (Check as many boxes as apply)

___ private
___ public-local
___ public-State
_X_ public-Federal

Category of Property (Check only one box)

___ building(s)
_X_ district
___ site
___ structure
___ object

Number of Resources within Property
(Do not include previously listed resources in the count).

Contributing	Noncontributing	
_11__	__6__	buildings
__0__	__0__	sites
__1__	__0__	structures
__0__	__0__	objects
_12__	__6__	Total

Number of contributing resources previously listed in the National Register ___N/A____

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

__Historic Resources of NAS Corpus Christi_____

6. Function or Use

Historic Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

Current Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

7. Description

Architectural Classification (Enter categories from instructions)

_LATE 19TH AND 20TH CENTURY REVIVALS/__
_Classical Revival/Tudor Revival_____
_Spanish Colonial Revival_____
_MODERN MOVEMENT/Moderne_____

Materials (Enter categories from instructions)

foundation _concrete_____
roof _asphalt_____
walls _asbestos/wood/steel/clay tile_____
other _stucco/wood_____

Narrative Description
(Describe the historic and current condition of the property on one or more continuation sheets.)

__Lexington Boulevard Historic District____
Name of Property

__Nueces County, Texas_____
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

_X__ A — Property is associated with events that have made a significant contribution to the broad patterns of our history.

____ B — Property is associated with the lives of persons significant in our past.

_X__ C — Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.

____ D — Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations
(Mark "X" in all the boxes that apply.)

____ A — owned by a religious institution or used for religious purposes.

____ B — removed from its original location.

____ C — a birthplace or a grave.

____ D — a cemetery.

____ E — a reconstructed building, object, or structure.

____ F — a commemorative property.

_X__ G — less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions).
_Military_____
_Architecture_____

Period of Significance
__1936 - 1947_____

Significant Dates
__1936/1941/1942_____

Significant Person
(Complete if Criterion B is marked above)
__N/A_____

Cultural Affiliation
__N/A_____

Architect/Builder
_Architect/Robert and Co., Atlanta/_____
_Albert Kahn, Detroit_____
_Builder/Columbia Construction Co.;_____
_Brown and Root; Warren S. Bellows_____

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)
___ preliminary determination of individual listing (36 CFR 67) has been requested.
___ previously listed in the National Register
___ previously determined eligible by the National Register
___ designated a National Historic Landmark
___ recorded by Historic American Buildings Survey # _____
___ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
___ State Historic Preservation Office
___ Other State agency
_X_ Federal agency
___ Local government
___ University
___ Other

Name of repository: __NAS Corpus Christi_____

__Lexington Boulevard Historic District_____ _Nueces County, Texas_____
Name of Property County and State

10. Geographical Data

Acreage of Property _Approx. 25.7 acres__

UTM References
(Place additional UTM references on a continuation sheet)

Zone Easting Northing Zone Easting Northing

_A._14_670525__3064345___B._14_670860__3064350_
_C._14_670800__3064080___D._14_670800__3063825_
_E._14_670525__3064000_____

____ See continuation sheet.

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title___Philip Thomason/Principal_____

organization__Thomason and Associates_____date_June, 1993_____

street & number__P.O. Box 121225_____telephone__615-383-0227_____

city or town___Nashville_____state__TN_____ zip code __37212_____

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps
A USGS map (7.5 or 15 minute series) indicating the property's location.

A sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional Items
(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name __NAS Corpus Christi_____

street & number_____telephone_(512)_939-2159_____

city or town_Corpus Christi_____state_TX__ zip code __78419-5000__

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

NPS Form 10-900
(Rev. 10-90)

OMB No. 1024-0018

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name __Landplane Hangars Historic District_____

other names/site number __N/A_____

2. Location

street & number ____First Street, NAS Corpus Christi_____ not for publication ___N/A_____

city or town __Corpus Christi_____vicinity __x_____

state __Texas_____ code __TX_____ county __Nueces_____code __355____ zip code _78419__

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this ____ nomination ____ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ____ meets ____ does not meet the National Register Criteria. I recommend that this property be considered significant ___ nationally _X_ statewide _X_ locally. (___ See continuation sheet for additional comments.)

_____ _____
Signature of certifying official Date

_____
State or Federal agency and bureau

In my opinion, the property ____ meets ____ does not meet the National Register criteria. (___ See continuation sheet for additional comments.)

_____ _____
Signature of commenting or other official Date

_____
State or Federal agency and bureau

_____
Navy Federal Preservation Officer

4. National Park Service Certification

I, hereby certify that this property is:

____ entered in the National Register _____
___ See continuation sheet.
____ determined eligible for the National Register _____
___ See continuation sheet.
____ determined not eligible for the National Register _____
____ removed from the National Register _____

____ other (explain): _____

_____ _____
Signature of Keeper Date of Action

__Landplane Hangars Historic District_____ _Nueces County, Texas_____
Name of Property County and State

5. Classification

Ownership of Property (Check as many boxes as apply) Category of Property (Check only one box)

___ private
___ public-local
___ public-State
_X_ public-Federal

___ building(s)
_X_ district
___ site
___ structure
___ object

Number of Resources within Property
(Do not include previously listed resources in the count).

Contributing	Noncontributing	
_11__	__6__	buildings
__0__	__0__	sites
__0__	__2__	structures
__0__	__0__	objects
_11__	__8__	Total

Number of contributing resources previously listed in the National Register ___N/A____

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

__Historic Resources of NAS Corpus Christi_____

6. Function or Use

Historic Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

Current Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

7. Description

Architectural Classification (Enter categories from instructions)

_*Other: Standardized Military*_____

Materials (Enter categories from instructions)

foundation _concrete_____
roof _asphalt_____
walls _asbestos/wood/steel/clay tile_____
other _glass_____

Narrative Description
(Describe the historic and current condition of the property on one or more continuation sheets.)

__Landplane Hangars Historic District___
Name of Property

__Nueces County, Texas_____
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

_X__ A — Property is associated with events that have made a significant contribution to the broad patterns of our history.

____ B — Property is associated with the lives of persons significant in our past.

____ C — Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.

____ D — Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations
(Mark "X" in all the boxes that apply.)

____ A — owned by a religious institution or used for religious purposes.

____ B — removed from its original location.

____ C — a birthplace or a grave.

____ D — a cemetery.

____ E — a reconstructed building, object, or structure.

____ F — a commemorative property.

_X__ G — less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions).
_Military_____

Period of Significance
__1941 - 1947_____

Significant Dates
__1941 - 1942_____

Significant Person
(Complete if Criterion B is marked above)
__N/A_____

Cultural Affiliation
__N/A_____

Architect/Builder
_Architect/Robert and Co., Atlanta/_____
_Albert Kahn, Detroit_____
_Builder/Columbia Construction Co.;_____
_Brown and Root; Warren S. Bellows_____

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)
___ preliminary determination of individual listing (36 CFR 67) has been requested.
___ previously listed in the National Register
___ previously determined eligible by the National Register
___ designated a National Historic Landmark
___ recorded by Historic American Buildings Survey # _____
___ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
___ State Historic Preservation Office
___ Other State agency
_X_ Federal agency
___ Local government
___ University
___ Other

Name of repository: __NAS Corpus Christi_____

10. Geographical Data

Acreage of Property _Approx. 35.1 acres__

UTM References
(Place additional UTM references on a continuation sheet)

Zone	Easting	Northing		Zone	Easting	Northing
A. 14	669055	3064700	B.	14	669180	3064755
C. 14	669620	3064100	D.	14	669325	3064000
E. 14	669545	3064325	E.	14	669360	3064225

____ See continuation sheet.

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title___Philip Thomason/Principal_____

organization__Thomason and Associates_____date_June, 1993_____

street & number__P.O. Box 121225_____telephone__615-383-0227_____

city or town___Nashville_____state__TN_____zip code __37212_____

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A **USGS map** (7.5 or 15 minute series) indicating the property's location.

A **sketch map** for historic districts and properties having large acreage or numerous resources.

Photographs

Representative **black and white photographs** of the property.

Additional Items
(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name __NAS Corpus Christi_____

street & number_____telephone__(512) 939-2159_____

city or town__Corpus Christi_____state_TX__ zip code _78419-5000___

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NPS Form 10-900
(Rev. 10-90)

OMB No. 1024-0018

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM

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1. Name of Property

historic name __Warehouse/Industrial Historic District_____

other names/site number __N/A_____

2. Location

street & number ____First Street/Ocean Drive/Crecy Street, NAS Corpus Christi_ not for publication ___N/A_____

city or town __Corpus Christi_____vicinity __x_____

state __Texas_____ code __TX_____ county __Nueces_____code __355____ zip code _78419__

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this ____ nomination ____ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ____ meets ____ does not meet the National Register Criteria. I recommend that this property be considered significant ___ nationally _X_ statewide _X_ locally. (___ See continuation sheet for additional comments.)

_____ _____
Signature of certifying official Date

_____
State or Federal agency and bureau

In my opinion, the property ____ meets ____ does not meet the National Register criteria. (___ See continuation sheet for additional comments.)

_____ _____
Signature of commenting or other official Date

_____
State or Federal agency and bureau

_____
Navy Federal Preservation Officer

4. National Park Service Certification

I, hereby certify that this property is:

____ entered in the National Register _____
___ See continuation sheet.
____ determined eligible for the _____
National Register
___ See continuation sheet.
____ determined not eligible for the _____
National Register
____ removed from the National Register _____

____ other (explain): _____

_____ _____
Signature of Keeper Date of Action

__Warehouse/Industrial Historic District____ _Nueces County, Texas_____
Name of Property County and State

5. Classification

Ownership of Property (Check as many boxes as apply)

___ private
___ public-local
___ public-State
_X_ public-Federal

Category of Property (Check only one box)

___ building(s)
_X_ district
___ site
___ structure
___ object

Number of Resources within Property
(Do not include previously listed resources in the count).

Contributing	Noncontributing	
_13__	__9__	buildings
__0__	__0__	sites
__1__	__0__	structures
__0__	__0__	objects
_14__	__9__	Total

Number of contributing resources previously listed in the National Register ___N/A____

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

__Historic Resources of NAS Corpus Christi_____

6. Function or Use

Historic Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

Current Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

7. Description

Architectural Classification (Enter categories from instructions)

__OTHER/ Standardized Military_____

Materials (Enter categories from instructions)

foundation _concrete_____
roof _asphalt_____
walls _asbestos/wood/steel/clay tile_____
other _stucco/wood_____

Narrative Description
(Describe the historic and current condition of the property on one or more continuation sheets.)

__Warehouse/Industrial Historic District____
Name of Property

__Nueces County, Texas_____
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

_X__ A — Property is associated with events that have made a significant contribution to the broad patterns of our history.

____ B — Property is associated with the lives of persons significant in our past.

_X__ C — Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.

____ D — Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations
(Mark "X" in all the boxes that apply.)

____ A — owned by a religious institution or used for religious purposes.

____ B — removed from its original location.

____ C — a birthplace or a grave.

____ D — a cemetery.

____ E — a reconstructed building, object, or structure.

____ F — a commemorative property.

_X__ G — less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions).
_Military_____

Period of Significance
__1941 - 1947_____

Significant Dates
__1941 - 1942_____

Significant Person
(Complete if Criterion B is marked above)
__N/A_____

Cultural Affiliation
__N/A_____

Architect/Builder
_Architect/Robert and Co., Atlanta/_____
_Builder/Columbia Construction Co._____
_Brown and Root; Warren S. Bellows_____

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)
___ preliminary determination of individual listing (36 CFR 67) has been requested.
___ previously listed in the National Register
___ previously determined eligible by the National Register
___ designated a National Historic Landmark
___ recorded by Historic American Buildings Survey # _____
___ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
___ State Historic Preservation Office
___ Other State agency
_X_ Federal agency
___ Local government
___ University
___ Other

Name of repository: __NAS Corpus Christi_____

__Warehouse/Industrial Historic District____ _Nueces County, Texas_____
Name of Property County and State

10. Geographical Data

Acreage of Property _Approx. 45.4 acres__

UTM References
(Place additional UTM references on a continuation sheet)

Zone Easting Northing Zone Easting Northing

_A._14_669410__3065140___B._14_669900__3064985_

_C._14_669705__3064115_____

____ See continuation sheet.

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title___Philip Thomason/Principal_____

organization__Thomasonand Associates_____date_June, 1993_____

street & number__P.O. Box 121225_____telephone__615-383-0227_____

city or town___Nashville_____state__TN_____ zip code __37212_____

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps
A USGS map (7.5 or 15 minute series) indicating the property's location.

A sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional items
(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name __NAS Corpus Christi_____

street & number_____telephone__(512) 939-2159_____

city or town___Corpus Christi_____state_TX__ zip code _78419-5000___

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NPS Form 10-900
(Rev. 10-90)

OMB No. 1024-0018

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM

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1. Name of Property

historic name __Seaplane Hangars/Ramps Historic District_____

other names/site number __N/A_____

2. Location

street & number ____Ocean Drive, NAS Corpus Christi_____ not for publication ___N/A_____

city or town __Corpus Christi_____vicinity __x_____

state __Texas_____ code __TX_____ county __Nueces_____code __355____ zip code _78419__

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this ____ nomination ____ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ____ meets ____ does not meet the National Register Criteria. I recommend that this property be considered significant ___ nationally _X_ statewide _X_ locally. (___ See continuation sheet for additional comments.)

_____ _____
Signature of certifying official Date

_____
State or Federal agency and bureau

In my opinion, the property ____ meets ____ does not meet the National Register criteria. (___ See continuation sheet for additional comments.)

_____ _____
Signature of commenting or other official Date

_____
State or Federal agency and bureau

_____
Navy Federal Preservation Officer

4. National Park Service Certification

I, hereby certify that this property is:

____ entered in the National Register _____
___ See continuation sheet.

____ determined eligible for the National Register _____
___ See continuation sheet.

____ determined not eligible for the National Register _____

____ removed from the National Register _____

____ other (explain): _____

_____ _____
Signature of Keeper Date of Action

__Seaplane Hangars/Kamps Historic District__ _Nueces County, Texas_____
Name of Property County and State

5. Classification

Ownership of Property (Check as many boxes as apply) Category of Property (Check only one box)

___ private
___ public-local
___ public-State
_X_ public-Federal

___ building(s)
_X_ district
___ site
___ structure
___ object

Number of Resources within Property
(Do not include previously listed resources in the count).

Contributing	Noncontributing	
_25__	__15_	buildings
__0__	__0__	sites
_27__	__0__	structures
__0__	__0__	objects
_52__	__15_	Total

Number of contributing resources previously listed in the National Register ___N/A____

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

__Historic Resources of NAS Corpus Christi_____

6. Function or Use

Historic Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

Current Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

7. Description

Architectural Classification (Enter categories from instructions)

_OTHER: Standardized Military_____

Materials (Enter categories from instructions)

foundation _concrete_____
roof _asphalt/concrete_____
walls _asbestos/wood/steel/clay tile_____
other _glass/reinforced concrete_____

Narrative Description
(Describe the historic and current condition of the property on one or more continuation sheets.)

__Seaplane Hangars/Ramps Historic District__
Name of Property

__Nueces County, Texas_____
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

_X__ A — Property is associated with events that have made a significant contribution to the broad patterns of our history.

____ B — Property is associated with the lives of persons significant in our past.

____ C — Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.

____ D — Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations
(Mark "X" in all the boxes that apply.)

____ A — owned by a religious institution or used for religious purposes.

____ B — removed from its original location.

____ C — a birthplace or a grave.

____ D — a cemetery.

____ E — a reconstructed building, object, or structure.

____ F — a commemorative property.

_X__ G — less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions).
_Military_____

Period of Significance
__1941 - 1947_____

Significant Dates
__1941 - 1942_____

Significant Person
(Complete if Criterion B is marked above)
__N/A_____

Cultural Affiliation
__N/A_____

Architect/Builder
_Architect/Robert and Co., Atlanta/_____
_Albert Kahn, Detroit_____
_Builder/Columbia Construction Co.;_____
_Brown and Root; Warren S. Bellows_____

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)
___ preliminary determination of individual listing (36 CFR 67) has been requested.
___ previously listed in the National Register
___ previously determined eligible by the National Register
___ designated a National Historic Landmark
___ recorded by Historic American Buildings Survey # _____
___ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
___ State Historic Preservation Office
___ Other State agency
_X_ Federal agency
___ Local government
___ University
___ Other

Name of repository: __NAS Corpus Christi_____

__Seaplane Hangars/Ramps Historic District___ _Nueces County, Texas_____
Name of Property County and State

10. Geographical Data

Acreage of Property __Approx. 569.5 acres__

UTM References
(Place additional UTM references on a *continuation sheet)*

	Zone	Easting	Northing		Zone	Easting	Northing
A.	14	669600	3065945	B.	14	672340	3065030
C.	14	673520	3063870	D.	14	673125	3063520
E.	14	669585	3065110				

____ See continuation sheet.

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title___Philip Thomason/Principal_____

organization__Thomason and Associates_____date_June, 1993_____

street & number__P.O. Box 121225_____telephone__615-383-0227_____

city or town___Nashville_____state__TN_____zip code __37212_____

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A **USGS map** (7.5 or 15 minute series) indicating the property's location.

A **sketch map** for historic districts and properties having large acreage or numerous resources.

Photographs

Representative **black and white photographs** of the property.

Additional Items
(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name __NAS Corpus Christi _____

street & number_____telephone_(512) 939-2159_____

city or town__Corpus Christi_____state_TX__ zip code _78419-5000___

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

NPS Form 10-900
(Rev. 10-90)

OMB No. 1024-0018

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name __Administrative/Academic Historic District_____

other names/site number __N/A_____

2. Location

street & number ____Fifth Street and Lexington Boulevard, NAS Corpus Christi_ not for publication ___N/A_____

city or town __Corpus Christi_____vicinity __x_____

state __Texas_____ code __TX____ county __Nueces_____code __355___ zip code _78419__

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this ____ nomination ____ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ____ meets ____ does not meet the National Register Criteria. I recommend that this property be considered significant ___ nationally _X_ statewide _X_ locally. (___ See continuation sheet for additional comments.)

_____ _____
Signature of certifying official Date

_____
State or Federal agency and bureau

In my opinion, the property ____ meets ____ does not meet the National Register criteria. (___ See continuation sheet for additional comments.)

_____ _____
Signature of commenting or other official Date

_____
State or Federal agency and bureau

_____
Navy Federal Preservation Officer

4. National Park Service Certification

I, hereby certify that this property is:

____ entered in the National Register _____
___ See continuation sheet.
____ determined eligible for the _____
National Register
___ See continuation sheet.
____ determined not eligible for the _____
National Register
____ removed from the National Register _____

____ other (explain): _____

_____ _____
Signature of Keeper Date of Action

__Administrative/Academic Historic District__ _Nueces County, Texas_____
Name of Property County and State

5. Classification

Ownership of Property (Check as many boxes as apply) Category of Property (Check only one box)

___ private
___ public-local
___ public-State
_X_ public-Federal

___ building(s)
_X_ district
___ site
___ structure
___ object

Number of Resources within Property
(Do not include previously listed resources in the count).

Contributing	Noncontributing	
__6__	__3__	buildings
__0__	__0__	sites
__0__	__0__	structures
__0__	__0__	objects
__6__	__3__	Total

Number of contributing resources previously listed in the National Register ___N/A____

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

__Historic Resources of NAS Corpus Christi_____

6. Function or Use

Historic Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

Current Functions (Enter categories from instructions)

__DEFENSE_____ __Air Facility_____

7. Description

Architectural Classification (Enter categories from instructions)

__MODERN MOVEMENT/Art Moderne_____
__OTHER/Standardized Military_____

Materials (Enter categories from instructions)

foundation _concrete_____
roof _asphalt_____
walls _asbestos_____
_wood_____
other _aluminum_____
_clay tile_____

Narrative Description
(Describe the historic and current condition of the property on one or more continuation sheets.)

__Administrative/Academic Historic District__
Name of Property

__Nueces County, Texas_____
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

_X__ A — Property is associated with events that have made a significant contribution to the broad patterns of our history.

____ B — Property is associated with the lives of persons significant in our past.

____ C — Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.

____ D — Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations
(Mark "X" in all the boxes that apply.)

____ A — owned by a religious institution or used for religious purposes.

____ B — removed from its original location.

____ C — a birthplace or a grave.

____ D — a cemetery.

____ E — a reconstructed building, object, or structure.

____ F — a commemorative property.

_X__ G — less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions).
_Military_____

Period of Significance
__1941 - 1947_____

Significant Dates
__1941 - 1942_____

Significant Person
(Complete if Criterion B is marked above)
__N/A_____

Cultural Affiliation
__N/A_____

Architect/Builder
_Architect/Robert and Co., Atlanta_____
_Builder/Columbia Construction Co.;_____
_Brown and Root; Warren S. Bellows____

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)
___ preliminary determination of individual listing (36 CFR 67) has been requested.
___ previously listed in the National Register
___ previously determined eligible by the National Register
___ designated a National Historic Landmark
___ recorded by Historic American Buildings Survey # _____
___ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
___ State Historic Preservation Office
___ Other State agency
_X_ Federal agency
___ Local government
___ University
___ Other

Name of repository: __NAS Corpus Christi_____

__Administrative/Academic Historic District__ _Nueces County, Texas_____
Name of Property County and State

10. Geographical Data

Acreage of Property __Approx. 22 acres___

UTM References
(Place additional UTM references on a continuation sheet)

Zone Easting Northing Zone Easting Northing

A. 14__670525__3064820___B.14__670925__3064685_

C._14__670865__3064540___D.14__670445__3064540_

____ See continuation sheet.

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title___Philip Thomason/Principal_____

organization__Thomason and Associates_____date_June, 1993_____

street & number__P.O. Box 121225_____telephone__615-383-0227_____

city or town___Nashville_____state__TN_____ zip code __37212_____

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps
A USGS map (7.5 or 15 minute series) indicating the property's location.

A sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional Items
(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name __NAS Corpus Christi_____

street & number_____telephone__(512) 939-2159_____

city or town__Corpus Christi _____state_TX__ zip code _78419-5000___

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

NPS Form 10-900
(Rev. 10-90)

OMB No. 1024-0018

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name __King Drive Historic District_____

other names/site number __N/A_____

2. Location

street & number ____King Drive, NAS Corpus Christi_____ not for publication ___N/A_____

city or town __Corpus Christi_____vicinity __x_____

state __Texas_____ code __TX_____ county __Nueces_____code __355____ zip code _78419__

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this ____ nomination ____ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ____ meets ____ does not meet the National Register Criteria. I recommend that this property be considered significant ___ nationally _X_ statewide _X_ locally. (___ See continuation sheet for additional comments.)

_____ _____
Signature of certifying official Date

_____
State or Federal agency and bureau

In my opinion, the property ____ meets ____ does not meet the National Register criteria. (___ See continuation sheet for additional comments.)

_____ _____
Signature of commenting or other official Date

_____
State or Federal agency and bureau

_____
Navy Federal Preservation Officer

4. National Park Service Certification

I, hereby certify that this property is:

____ entered in the National Register _____
___ See continuation sheet.
____ determined eligible for the _____
National Register
___ See continuation sheet.
____ determined not eligible for the _____
National Register
____ removed from the National Register _____

____ other (explain): _____

_____ _____
Signature of Keeper Date of Action

__King Drive Historic District____ _Nueces County, Texas_____
Name of Property County and State

5. Classification

Ownership of Property (Check as many boxes as apply) Category of Property (Check only one box)

___ private
___ public-local
___ public-State
_X_ public-Federal

___ building(s)
_X_ district
___ site
___ structure
___ object

Number of Resources within Property
(Do not include previously listed resources in the count).

Contributing	Noncontributing	
__12_	__2__	buildings
___0_	__0__	sites
___2_	__2__	structures
___0_	__0__	objects
__14_	__4__	Total

Number of contributing resources previously listed in the National Register ___N/A____

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

__Historic Resources of NAS Corpus Christi_____

6. Function or Use

Historic Functions (Enter categories from instructions)
__DEFENSE_____ __Air Facility_____

Current Functions (Enter categories from instructions)
__DEFENSE_____ __Air Facility_____

7. Description

Architectural Classification (Enter categories from instructions)
__Classical Revival_____
__Other: Minimal Traditional_____

Materials (Enter categories from instructions)

foundation _concrete_____
roof _asphalt_____
walls _asbestos_____
_wood_____
other _aluminum_____
_brick_____

Narrative Description
(Describe the historic and current condition of the property on one or more continuation sheets.)

__King Drive Historic District__
Name of Property

__Nueces County, Texas_____
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

_X__ A — Property is associated with events that have made a significant contribution to the broad patterns of our history.

____ B — Property is associated with the lives of persons significant in our past.

____ C — Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.

____ D — Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations
(Mark "X" in all the boxes that apply.)

____ A — owned by a religious institution or used for religious purposes.

____ B — removed from its original location.

____ C — a birthplace or a grave.

____ D — a cemetery.

____ E — a reconstructed building, object, or structure.

____ F — a commemorative property.

_X__ G — less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions).
_Military_____

Period of Significance
__1941 - 1947_____

Significant Dates
__1941 - 1942_____

Significant Person
(Complete if Criterion B is marked above)
__N/A_____

Cultural Affiliation
__N/A_____

Architect/Builder
_Architect/Robert and Co., Atlanta_____
_Builder/Columbia Construction Co.;_____
_Brown and Root; Warren S. Bellows____

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)
___ preliminary determination of individual listing (36 CFR 67) has been requested.
___ previously listed in the National Register
___ previously determined eligible by the National Register
___ designated a National Historic Landmark
___ recorded by Historic American Buildings Survey # _____
___ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
___ State Historic Preservation Office
___ Other State agency
_X_ Federal agency
___ Local government
___ University
___ Other

Name of repository: __NAS Corpus Christi_____

10. Geographical Data

Acreage of Property __Approx. 26 acres___

UTM References
(Place additional UTM references on a continuation sheet)

	Zone	Easting	Northing		Zone	Easting	Northing
A.	14	671165	3064810	B.	14	671990	3064600
C.	14	671920	3064315	D.	14	671140	3064720

____ See continuation sheet.

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title___Philip Thomason/Principal_____

organization__Thomasonand Associates_____date_June, 1993_____

street & number__P.O. Box 121225_____telephone__615-383-0227_____

city or town___Nashville_____state__TN_____zip code __37212_____

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A **USGS map** (7.5 or 15 minute series) indicating the property's location.

A **sketch map** for historic districts and properties having large acreage or numerous resources.

Photographs

Representative **black and white photographs** of the property.

Additional Items
(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name __NAS Corpus Christi_____

street & number_____telephone_(512) 939-2159_____

city or town__Corpus Christi _____state_TX__ zip code _78419-5000___

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

ABSTRACT

Archaeological Phase I survey was conducted according to specification of the Historical and Archaeological Resources Protection (HARP) Plan for Naval Air Station Corpus Christi between January 11 and January 15, 1993 by Garrow & Associates, Inc. for the Naval Air Station Corpus Christi (NASCORPC) Office of Public Works, Corpus Christi, Texas. The project area consists of approximately 852 acres, located in the peripheral areas of NASCORPC and Waldron and Cabaniss fields, two naval auxiliary landing fields (NALF) used for pilot training. The project area properties were generally on or near Oso Creek and Oso Bay. All are within the city limits of Corpus Christi, Texas.

The study area was largely disturbed by construction, fill, road, and fence building on the naval air station and its auxiliary landing fields. This construction has continued intermittently since the station was established in 1941. Subsurface testing and surface inspection (where possible) were conducted to identify sites. NASCORPC and Waldron NALF are located on Galveston and Mustang fine sand which allowed subsurface testing in the appropriate parcels; subsurface inspection was provided in many cases by sorting through sediments from numerous gopher mounds. Cabaniss NALF is located on Victoria clay; shovel testing the clay per se was generally futile, but shovel testing was performed at 30 m intervals to penetrate the surface vegetation.

Of the five sites discovered, three sites contained prehistoric components (41NU270, 41NU271, and 41NU272) and two contained historic and prehistoric components (41NU273 and 41NU274). Two sites (41NU272 and 41NU274) were recommended for further testing. Site 41NU272 on Cabaniss was recommended for Phase II testing with a backhoe to determine if intact stratigraphy exists. The Windmill Site (41NU274) was recommended for further testing to determine its eligibility for the National Register of Historic Places. Of particular concern is whether the site and its related debris are an integral part of a stock-maintaining complex, which includes the windmill, or whether the debris is related to the 30 foot high spoil pile to the east.

The remaining three sites (41NU270, 41NU271, and 41NU273) were found to be disturbed by construction and are recommended ineligible for listing on the National Register of Historic Places.

encl(8)

I. INTRODUCTION

Phase I surveys (Secretary of the Interior 1983:44722) were conducted on seventeen parcels of land peripheral to the Naval Air Station Corpus Christi and Waldron and Cabaniss naval auxiliary landing fields (NALF) within the city limits of Corpus Christi, Texas. The fieldwork was accomplished between January 11 and 15, 1993. The project was conducted to comply with 36 CFR 800 and 36 CFR 66 of the National Historic Preservation Act of 1966, as amended. The objective of the surveys and testing was to identify any potentially significant cultural resources following procedures set forth in the Historical and Archaeological Resources Protection (HARP) Plan (U.S. Army Engineering District 1991).

Five sites were identified during the course of the surveys; a sixth site (41NU80) was reported from background research for the HARP Plan, but it could not be relocated. Two of the sites identified produced historic and prehistoric artifacts, while three produced only prehistoric artifacts. Two sites are recommended for Phase II testing to determine their eligibility for the National Register of Historic Places.

Previous studies in the Oso Bay area have indicated that prehistoric sites, with rare exceptions, are located near water courses (Ricklis 1991). An objective of this study was to determine if there were differentiations of site settlement patterns along streams relative to soils and topography. Our findings indicate that sites are located on loamy, well-drained segments of upland margin bluffs overlooking floodplains but not on more consolidated and moister segments.

The following chapters contain the methodology and results of the investigations. Chapters II and III provide environmental and cultural contexts for the study area. Chapter IV presents the research design for the project and the methodology employed. The results of the investigations are presented in Chapter V, and Chapter VI contains a summary of the investigations and offers recommendations. An inventory of artifacts found is listed in Appendix 1, and the resumé of the principal investigator is included as Appendix 2.

north of the perimeter road. The bluff is interrupted occasionally by branches and wetlands. Occasional small wetlands, depressions in the clay dune, dot the upland behind the bluff. The upland margin is alternatively wet clay downstream from the wetland, and loamy dry soils in the intervening spaces. The intervening loamy segments of the upland margin contain gopher mounds and, occasionally, sites.

West. East of the runways was a moderately vegetated parcel encompassing 23.75 acres. The area was investigated by four crew members in 30 m transects using shovel testing. Surface inspection was also employed in order to search for historic structures. No sites were found.

Northwest. A 6 acre parcel to the northwest of the landing field contained hay which had been cut recently. Surface inspection revealed artifacts along the perimeter road. These were associated with a scatter of shell and are taken to represent artifacts brought in with shell mound material used to surface the perimeter road.

North. A 16 acre parcel to the north of the landing field also contained hay which had been cut recently. Surface inspection revealed some artifacts along the perimeter road. These were associated with a scatter of shell and are taken to represent artifacts brought in with shell mound material used to surface the perimeter road.

East. A parcel on the eastern side of the landing field encompassing 65.75 acres contained moderate vegetation cover. The area marked on the HARP Plan map consists of a large squared off area divided diagonally by a deep drainage ditch. Since the HARP Plan was prepared, the area east of the drainage ditch has been sold (215.25 acres). Surface inspection of the area west of the drainage ditch revealed no structures or prehistoric sites. A single apricot tree was found.

SITE DESCRIPTIONS

Five sites were discovered within the areas of archaeological potential during the Phase I surveys at NASCORPC, Waldron NALF, and Cabaniss NALF. Three prehistoric sites (41NU270, 41NU271, and 41NU272) were located along the northern upland margin of Oso Creek at Cabaniss NALF. A fourth prehistoric site (41NU273) was located on the Encinal Peninsula outside the south gate of NASCORPC on land recently acquired by the Navy. A windmill and possible historic farmstead (41NU274) were also located by survey on the west parcel. The results of these investigations are presented below.

VI. SUMMARY AND RECOMMENDATIONS

SUMMARY

Archaeological studies in the three properties of the Naval Air Station Corpus Christi (NASCORPC) identified prehistoric and/or historic occupations at five locations. Diagnostic artifacts were limited to a single shell scraper found in isolated context in the back edge of a beach on Laguna Madre sound in the southeast parcel of NASCORPC. A Refugio point dating to the Archaic period was reported by an informant.

The ruins of a historic windmill and possible structure (41NU274) were found in the southwest parcel of NASCORPC in red bay woodland. Background studies indicated that this may have been related to the King Ranch, which once owned the land. The historic site also contained prehistoric artifacts. A similar dryland site was discovered on NASCORPC at site 41NU272. Both of these sites are located in the center of the Encinal Peninsula, over 1,000 m from water. Though anticipated by Ricklis (1991), these dry sites remain to be incorporated into the 1-2 settlement pattern model. The three prehistoric sites on Oso Creek, though small and containing few artifacts, appear to agree with a diminishing frequency of sites as one approaches the headwaters of the Oso Creek watershed.

Comparison of site and non-site locations along Oso Creek indicates that occupation was confined to the banks of streams in areas of relatively loamy and well drained soil.

RECOMMENDATIONS

Two sites deserve specific comment relative to recommendations: sites 41NU272 and 41NU273.

Archaeological Site 41NU272

No direct evidence of intact subsurface deposits was discovered during the Phase I shovel testing. However, given the circumstances in which the artifacts were found, there is reason to believe that a site may exist below the range of shovel testing. The artifacts were found on the eroding slope edge of a loess sheet. Consultations with the SHPO, HARP writers, and Hester indicated that shovel testing would probably not reveal the presence of a site under these conditions. They suggest that artifacts on the surface probably indicate a sub-surface site that is being eroded. Since the loess sheets are thought to have been deposited within the last 1,000 years, well within the time limit of human habitation of the region, this is

not an unreasonable expectation. Furthermore, the finds were near a wetland, a typical location for a site. Finally, the location is within a well drained segment of the upland margin, a situation that conforms to site locations expectations developed during this project. We therefore recommend Phase II testing using a cost effective means of testing the loess sheet, such as backhoe excavation (Black 1989:61).

Archaeological Site 41NU273

Despite the relatively high artifact frequency, the degree to which the site has been disturbed by gophers and construction activities indicate that the site has no stratigraphic integrity. Phase II testing would augment the artifact sample from the site, but it would not provide additional information on stratigraphic relationships of artifacts. Since a sample of 71 artifacts has already been collected from the site, this seems of limited archaeological value. Phase II testing is not recommended, and site 41NU273 is not recommended as eligible for listing on the National Register of Historic Places.

General Recommendations

Table 3 summarizes the recommendations for the NASCORPC. There is one prehistoric site at Cabaniss NALF (41NU272), and a prehistoric component at the Windmill Site (41NU274) that is potentially eligible for nomination to the NRHP. In the event they cannot be avoided by construction, they should be Phase II tested to determine their eligibility for the National Register of Historic Places. Both sites should be tested using a cost effective means such as backhoe testing, to determine site integrity and depth, and at least three 1 x 1 m test units should be excavated to recover artifact samples where indications are favorable. The other two sites at Cabaniss NALF (41NU270, 41NU271), and the site in the AICUZ parcel near the NASCORPC South Gate (41NU273) appear to be disturbed and should not be subjected to Phase II testing.

Table 3. Recommendations for Further Testing.

Site #	Prehistoric	Historic	Further Testing
41NU270	x		NO
41NU271	x		NO
41NU272	x		YES
41NU273	x	x	NO
41NU274	x	x	YES

The historic component at the Windmill Site (41NU274) could be eligible for listing on the National Register of Historic Places. A Phase II investigation conducted to evaluate site integrity and depth should determine whether the debris around the

windmill is related to a structure or whether it is the result of trash dumping during the naval air station period.

During and following the project, the Navy was negotiating for the purchase of additional AICUZ lands adjacent to Waldron and Cabaniss. The experience gained from this project suggests that archaeological sites are unlikely to be found on the additional Waldron area lands. Most of the proposed AICUZ land at Cabaniss was surveyed during this project, that on the north side of Oso Creek on existing property. The land on the proposed AICUZ on the south side of Oso Creek was not surveyed since it had not yet been acquired, and it is highly likely that archaeological sites will be found on it. This land should be surveyed when it is acquired. These recommendations were transmitted in a letter from the principal investigator to Phil Thomason on November 8, 1994 that was subsequently forwarded to Jane Heinen of NASCORPC Office of Public Works.

CULTURAL RESOURCE MANAGEMENT PLAN

NAVAL AIR STATION CORPUS CHRISTI

CORPUS CHRISTI, TEXAS

Submitted to

COMMANDING OFFICER
NAVAL AIR STATION CORPUS CHRISTI
CORPUS CHRISTI, TEXAS

★★★

Thomason and Associates
Preservation Planners
Nashville, Tennessee

Contract No. N62467-92-D-8979

February, 1994

encl (9)

APPENDIX II - PROGRAMMATIC AGREEMENT

PROGRAMMATIC AGREEMENT
AMONG NAVAL AIR STATION CORPUS CHRISTI
OF THE DEPARTMENT OF THE NAVY
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION
AND THE TEXAS STATE HISTORIC PRESERVATION OFFICE
FOR OPERATION, MAINTENANCE, AND DEVELOPMENT
UNDERTAKINGS
AT NAVAL AIR STATION CORPUS CHRISTI
CORPUS CHRISTI, TEXAS

WHEREAS, The United States Department of the Navy [Navy] has determined that operation, maintenance, and development undertakings at Naval Air Station [NAS] Corpus Christi may have an effect upon facilities that are determined eligible for or listed in the National Register of Historic Places [historic property or historic properties] and

WHEREAS, the Navy has consulted with the Advisory Council on Historic Preservation [ACHP] and the Texas State Historic Preservation Office [SHPO] pursuant to Section 800.13 of the regulations (36 CFR Part 800) implementing Section 106 of the National Historic Preservation Act (16 USC Sec. 470f) to develop Programmatic Agreements regarding review of operation, maintenance, and development undertakings at the station.

NOW THEREFORE, the Navy, the ACHP, and the Texas SHPO agree that operation, maintenance, and development undertakings shall be administered in accordance with the following stipulations to satisfy the Navy's Section 106 responsibilities for such undertakings:

STIPULATIONS

The Navy shall ensure that the following are carried out.

I. Section 106 and the Cultural Resource Management Plan

A. The NAS Corpus Christi Public Works Department shall be the Navy point of contact for all matters relating to the cultural resources management program. This shall not prohibit communication between other parties. The Public Works Department will provide training for at least one member of their staff in Historic Preservation Law and other relevant courses offered by the Navy, ACHP, and SHPO.

B. The Navy will follow guidelines and standards set forth in the Cultural Resource Management Plan for NAS Corpus Christi. These guidelines and standards follow:

II. Undertakings That Do Not Require Review

The following types of undertakings shall be considered to have no effect on the proposed historic properties and may proceed without notice to the SHPO or ACHP:

A. Sidewalk, street, and gutter repair;

B. Work outside historic property boundaries except where projects are immediately adjacent to historic property boundaries, or where new construction will be immediately adjacent to a historic property boundary;

C. Maintenance of existing landscaping and trees;

D. Removal of dead or dying unsalvageable trees if replaced in kind;

E. Interior rehabilitation of non-historic properties;

F. Minor, in-kind repair or replacement of property features, elements or materials of non-historic properties;

G. Minor, in-kind repair or replacement of property features, elements, or materials of Contributing properties such that original/significant historic fabric is matched in materials, size, dimension, color, texture, finish, construction details, and all other visual qualities;

H. Modification to heating, ventilation, and air condition [HVAC], plumbing, or electrical systems provided that such work does not affect the exterior or significant interior features of historic properties;

III. Rehabilitation

A. All rehabilitation undertakings on historic properties shall adhere to "The Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Properties" [Standards].

B. Except for those undertakings consisting solely of actions exempt under Stipulation II, the Navy will provide documentation on each undertaking that has No Effect or No Adverse Effect to the Texas SHPO for a review period of fifteen (15) working days. No response from the SHPO will be understood to indicate no objection to the undertaking and the project may proceed.

C. If the Texas SHPO determines that the proposed rehabilitation of a historic property does not adhere to the Standards, or that rehabilitation of a non-historic property or a property immediately adjacent to a historic property will have a negative visual impact on that historic property, further review will proceed pursuant to 36 CFR Part 800 rather than the terms of this Agreement. The Navy will initiate the procedure set forth at 36 CFR Section 800.5(e).

D. All rehabilitation undertakings that will effect the exterior of non-historic properties or properties immediately adjacent to the historic property boundaries shall be designed so that the exterior of such properties will be no less compatible, and if possible more compatible with the historic properties in terms of size, scale, color, material, and character. Except for those undertakings consisting solely of actions exempt under Stipulation II, the Navy will provide documentation on each undertaking to the Texas SHPO for a period of fifteen (15) working days. No response from the SHPO will be understood to indicate no objection to the undertaking and the project may proceed.

IV. New Construction

A. New construction undertakings within a historic property boundary or immediately adjacent to a historic property boundary, shall adhere to the recommended approaches in the Standards that apply to new construction, specifically Standards 8, 9, and 10.

B. To ensure adherence to the recommended approaches in the Standards, the Navy shall:

1. Provide a description of the proposed project, indicating siting and setting to the Texas SHPO for a review period of fifteen (15) working days;

2. Provide 35% design information to the Texas SHPO for a review period of fifteen (15) working days; and

3. Provide 90% design information to the Texas SHPO for a review period of fifteen (15) working days; and

4. Provide progressive design information to the Texas SHPO for a review period of fifteen (15) working days if the Navy, in consulation with the SHPO, determines that said design is a radical departure from the 35% design in siting, footprint, massing, materials, or facade arrangement.

5. No response from the SHPO after the agreed upon review period shall be taken to indicate no objection to the undertaking and the project may proceed.

C. If at any point during the review, the Texas SHPO objects to the plans for new construction, further review will proceed pursuant to 36 CFR Part 800 rather than the terms of this Agreement. The Navy will initiate the procedure set forth at 36 CFR Section 800.5(e).

V. Demolition

A. If a proposed undertaking involves the demolition of a historic property, the following documentation shall be provided immediately to the Texas SHPO and the ACHP for concurrent review:

1. current exterior and interior photographs;

2. current structural report;

3. reasons for proposed demolition; and

4. all alternatives to demolition considered and reasons for their rejection;

B. If the Texas SHPO or the ACHP does not object to the proposed demolition within a period of thirty (30) working days, the Navy shall contact the Historic American Buildings Survey [HABS] and shall record the building in accordance with the recommendations of that office. HABS must accept the recordation, and the Texas SHPO and the ACHP must be notified of its acceptance, prior to demolition.

C. If the Texas SHPO or the ACHP object to the proposed demolition, further review will proceed pursuant to 36 CFR Part 800 rather than the terms of this Agreement. The Navy will

initiate the procedure set forth in 36 CFR Section 800.5(e).

D. If demolition of a non-historic property within the boundaries of a historic property is proposed, the Navy shall notify the Texas SHPO prior to demolition.

VI. Protection of Archaeological Resources

A. If a proposed undertaking involves excavation in an area of the installation that has not been previously disturbed, the Navy shall:

1. Provide a description of the site to the Texas SHPO for a review period of thirty (30) working days;

2. No response from the SHPO after the agreed upon review period shall be understood to indicate no objection to the undertaking and a completion of the Section 106 process.

B. In accordance with 36 CFR Section 800.11 (a), if previously undetected archaeological resources are discovered during project activities, the Navy will cease, or cause to stop, any activity having an effect on the resource and consult with the Texas SHPO to determine if additional investigation is required. The ACHP's Western Office of Project Review should be contacted in accordance with 36 CFR 800.11(b)(2).

1. If further archaeological investigations are required, any data recovery will be developed and performed in consulation with the Texas SHPO in accordance with the Secretary of the Interior's Standards and Guidelines for Archaeological Documentation (48 FR 44734-37) and take into account the ACHP's publication, "Treatment of Archaeological Properties."

2. If both the Navy and the Texas SHPO determine that further investigation is not necessary, activities may resume with no further action required.

VII. Documentation and Monitoring

A. The Navy shall retain documentation for all operation, maintenance, and development undertakings covered by this Agreement, specifically all undertakings with the potential to affect historic properties for a period of two years after completion of the undertaking. This documentation shall include photographs showing existing conditions prior to the project start, work description, and photographs of the completed project.

B. The Texas SHPO may perform on-site reviews of documentation on completed projects to ensure compliance with this Agreement. The Navy shall be notified thirty (30) days prior to an on-site review.

C. A report summarizing projects covered under Sections III, IV, and V of this Agreement shall be provided to the Texas SHPO and Council annually. Summaries of the work accomplished in each project shall be approximately one paragraph.

D. The Texas SHPO may provide training to the Navy preservation officials on the Navy's responsibilities pursuant to Section 106 of the National Historic Preservation Act.

VIII. Dispute Resolution

A. Should any party to this Agreement object to any actions proposed or undertaken pursuant to this Agreement, the Navy shall consult with the objecting party to resolve the objection. If the Navy determines that the objection cannot be resolved, it shall request the further comments of the ACHP pursuant to 36 CFR Part 800.6(b). Any ACHP comment provided in reponse to such as request shall be taken into account by the Navy in accordance with 36 CFR Part 800.6(c)(2) with reference only to the subject of the dispute; the Navy's responsibility to carry out all actions under this Agreement that are not the subject of the dispute shall remain unchanged.

B. If any of the parties to this Agreement believe that the terms of the Agreement cannot be carried out, or that an amendment to the terms of the Agreement is required, that party shall immediately notify the other parties and request consultation to amend this Agreement. The process of amending the Agreement shall be the same as that exercised in creating the original Agreement.

IX. Renewal

This Agreement shall be in effect for five (5) years from the execution date, which shall be the date of the final signature. Before the end of the fifth (5th) year, the Agreement shall be reviewed by the Navy, the Texas SHPO, and the ACHP for possible modifications, extension, or termination. At the request of any of the parties, this Agreement may be reviewed for possible modifications, extension, or termination at any time.

X. Compliance with the Antideficiency Act

In the event that the Navy is unable to carry out the terms of this Agreement due to the provisions of the Antideficiency Act (31 USC Sec. 1341), the Navy shall immediately advise the Texas SHPO and the Council and shall otherwise comply with all requirements of 36 CFR Part 800.

Execution of this Agreement and carrying out its terms evidences that the Navy has satisfied its Section 106 responsibilities for all individual undertakings of the program addressed herein.

XI. Definition of Historic and Non-historic Properties

A. Facility 252, the Navy Brig on First Street is a historic property.

B. Seaplane Hangars/Ramps Historic District:

1. Historic properties shall refer to facilities 41, 41A, 41B, 42, 42A, 42B, 43, 43A, 43B, 44, 44A, 44B, 45, 45A, 45B, 46, 46B, 47, 47A, 47B, A-5, A-6, A-7, A-11, A-14, B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-11, B-16, B-18, B-20, B-21, B-22, B-23, B-24, B-25, B-26, B-27, B-28, B-29, B-32A, B-32B, B-33A, B-33B, B-34, and the Quay Wall.

2. Non-historic properties shall be defined as facilities within the boundary of a historic district that are not listed as historic properties. Non-historic properties shall refer to 47C, 1225, 1749, 1759, 1765, 1805, 1806, 1807, 1819, 1863, A-1, A-2, A-3, A-4, and A-54.

3. Directly adjacent facilities shall refer to any new construction bordering this historic district.

C. Landplane Hangars Historic District:

1. Historic properties shall refer to facilities 51, 51A, 55, 56, 56A, 56B, 57, 57A, 57B, 58, and 58A.

2. Non-historic properties shall be defined as facilities within the boundary of the historic district that are not listed as historic properties. Non-historic properties shall refer to 60, 62, 1238, 1239, 1242, 1244, 1280, 1720.

3. Directly adjacent facilities shall refer to facilities 247, 248, and any new construction bordering this historic district.

D. Industrial-Warehouse Historic District:

1. Historic properties shall refer to facilities 10, 11, 12, 15, 18, 19, 20, 22, 27, 164, 255, 306, 330, and the remaining sections of the NAS Railroad that extends through the district boundary.

2. Non-historic properties shall be defined as facilities within the boundary of the historic district that are not listed as historic properties. Non-historic properties shall refer to facilities 23, 305, 1153, 1153A, 1826, 1839, 1841, 1846, and 1857.

3. Directly adjacent facilities shall refer to facilities 8, 258, and any new construction bordering this historic district.

E. Administration/Training Historic District:

1. Historic properties shall refer to facilities 1, 34, 36, 37, and 369.

2. Non-historic properties shall be defined as facilities within the boundary of thehistoric district that are not listed as historic properties. Non-historic properties shall refer to facilities 3, 290, 1250, and 1824.

3. Directly adjacent facilities shall refer to facility 39 and any new construction bordering this historic district.

F. Lexington Boulevard Historic District:

1. Historic properties shall refer to facilities 5, 100, 102, 117, 149, 249, 332, 1137, L, L-1, L-2, and W-3.

2. Non-historic properties shall be defined as facilities within the boundary of the historic district that are not listed as historic properties. Non-historic properties shall refer to *facilities 101*, 103, 104, 126, 303, and 1758.

3. Directly adjacent facilities shall refer to facilities 39, 318, 335, and any new construction bordering this historic district.

G. King Drive Historic District:

1. Historic properties shall refer to facilities 92, 93, 94, 240, A, B, C, D, E, F, G, H, I, and J.

2. Non-historic properties shall be defined as facilities within the boundary of the historic district that are not listed as historic properties. Non-historic properties shall refer to facilities 90, 95, and 1131.

3. Directly adjacent facilities shall refer to any new construction bordering this historic district.

H. Ninth Street Historic District:

1. Historic properties shall refer to facilities H-A, H-B, H-C, H-D, and H-E.

2. No non-historic properties are within this historic district.

3. Directly adjacent facilities shall refer to H-9, H-45, H-54 and any new construction bordering this historic district.

I. Projects Adjacent to Historic Properties

1. The determination of whether or not a new building borders on a historic property will depend on the extent to which it has the potential to introduce visual elements out of character with a historic property (see CFR 800.9(3)).

2. The massing, size, and scale of the new buildings, as well as its exact location with respect to a historic property will be taken into consideration in making such a determination. The determination should be made on a case-by-case basis, in consulation with the Texas SHPO.

UNITED STATES DEPARTMENT OF THE NAVY

By:_____

Date:_____

TEXAS STATE HISTORIC PRESERVATION OFFICER

By:_____

Date:_____

Curtis Tunnell
Texas State Historic Preservation Officer

ADVISORY COUNCIL ON HISTORIC PRESERVATION

By:_____

Date:_____

Standards are to be applied to specific, rehabilitation projects in a reasonable manner, taking into consideration economic and technical feasibility.

The Standards are:

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.

4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.

5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.

6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken in the gentlest means possible.

8. Significant archaeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

These standards are to serve as the basis for activities which would affect the historic resources at NAS Corpus Christi. The standards should be consulted in the initial planning stages of a project and throughout the design and/or construction phase.

CULTURAL RESOURCE MANAGEMENT PLAN
MANAGEMENT SECTION

I. HISTORIC PROPERTY MANAGEMENT

1. Introduction

The Management Section of the Cultural Resource Management Plan is designed to provide the following information:

- Assist in understanding the physical properties and characteristics of NAS Corpus Christi's historic resources.
- Provide design guidelines for property types within the historic districts.
- Provide recommendations for future repair, rehabilitation, and maintenance of architectural resources.
- Provide recommendations for new construction within or adjacent to historic districts and individual properties.
- Provide recommendations for effective management of historic and archaeological resources.

NAS Corpus Christi has seven proposed historic districts. In addition to the buildings and structures in the historic districts, the Navy Brig (Facility 252) has been identified as meeting individual National Register Criteria. Future base activities will affect cultural resources in a variety of ways. Affects to cultural resources may include avoidance, mitigation, and rehabilitation.

Affects To Historic Properties

A. Rehabilitation

Rehabilitation is defined as the act or process of returning a property to a state of utility through repair or alteration that makes possible an efficient contemporary use while preserving those details or features of the property that are significant to its historical, architectural, and cultural values. Rehabilitation is a positive preservation measure for historic properties. The rehabilitation and design guidelines that are included in this document are based upon, and are in accordance with the "Secretary of the Interior's Standards for Rehabilitation and Guidelines and Guidelines for Rehabilitation of Historic Buildings."

The "Secretary of the Interior's Standards for Rehabilitation" are standards used throughout the country as a basis for design review and rehabilitation projects. The Standards were originally published in 1977 and revised in 1990 as part of Department of the Interior regulations (36 CFR Part 67, Historic Preservation Certifications). They pertain to historic buildings of all materials, construction types, sizes, and occupancy and encompass the exterior and the interior of historic buildings. The Standards also encompass related landscape features and the building's site and environment as well as attached, adjacent or related new construction. The

by station activities will receive an appropriate level of documentation as established through consultation with the SHPO and ACHP. Documentation generally follows recordation techniques established by the Historic American Building Survey (HABS) and the Historic American Engineering Record (HAER). Documentation may include archival photography of the resource, measured drawings, and historical research. The techniques recommended will depend upon the level of impact and the significance of the resource.

B. Avoidance

The overall policy of the Navy is to avoid, where practical and possible within mission and budgetary constraints, adverse impacts to historic properties. The "NAS Corpus Christi Survey Report" provides information regarding the location and description of historic resources. This report should be consulted at the earliest possible time when planning any base activity or new construction project. If potential effects to historic properties are identified, NAS officials should be brought into the planning process to assist in finding avoidance alternatives to the proposed base activity.

C. Mitigation

If avoidance of impacts to a historic property is not feasible, the adoption of one or more mitigation measures may be necessary. Mitigation is the term used to describe efforts to lessen or minimize negative impacts to historic properties. Mitigation can take the form of stabilization of the resource, data recovery, or recordation techniques. Mitigation planning will be conducted on a project-specific basis and the type of mitigation will depend upon the impact to the resource. Mitigation techniques may include the following:

◆ Preservation in Place

Preservation in place is defined as the act or process of applying measures to sustain the existing form, integrity, and material of a resource. This can include stabilization and maintenance methods but does not include substantial rehabilitation or reconstruction. Preservation in place includes both the retention of historic fabric and the resource's site and setting. Station activities affecting site and setting will be considered and measures taken to minimize their effects. Visual impacts to buildings and structures will generally be readily apparent, however, visual impacts to sites or archaeological resources must also be considered. Preservation in place will include programs for regular maintenance to prevent deterioration of a historic property.

◆ Stabilization

Stabilization is defined as the act or process of applying measures that will result in a weather-resistant enclosure and the structural stability of a resource while maintaining its essential form. Stabilization should detract as little as possible from the property's appearance and significance. Stabilization should also result in minimal loss of historic fabric from the resource. If structural reinforcement is required, such work should be concealed or hidden whenever possible except where the concealment would alter or destroy historic fabric. Stabilization methods should be documented so that they can be understood and assessed during future work on the resource.

◆ Data Recovery

Data Recovery is primarily utilized in mitigation of archaeological resources. This may include excavation, removal, and scientific study of cultural resource materials in accordance with standard recovery techniques.

◆ Recordation Techniques

Historic properties which are to be altered or demolished, may be mitigated through various levels of recordation techniques. Any historic property that is adversely affected

APPENDIX III

NATIONAL REGISTER EVALUATIONS FOR SURVEYED PROPERTIES

encl (10)

NATIONAL REGISTER ASSESSMENT
INVENTORIED PROPERTIES - CULTURAL RESOURCE SURVEY
NAVAL AIR STATION CORPUS CHRISTI

FACILITY	USE	N. R. ASSESSMENT
1	Administration/Headquarters	Eligible
2	Cadet Headquarters	Not Eligible
3	Ground School Administration	Not eligible
5	Library	Eligible
8	Assembly and Repair Bldg.	Not eligible
10	Warehouse	Eligible
11	Aircraft Storehouse	Eligible
12	Storage	Eligible
13	Power Plant	Not eligible
15	Storage/Warehouse	Eligible
18	Fire Station	Eligible
19	Public Works Shops	Eligible
20	Garage	Eligible
22	Storage/Warehouse	Eligible
23	Storage/Public Works Shop	Not eligible
27	Storage	Eligible
28	Storage/Maintenance	Not eligible
32	Garage	Not eligible
34	Administrative/Print Shop	Eligible
36	Services/Administrative	Eligible
37	Administrative	Eligible
39	Service/Administrative	Not eligible
41	Seaplane Hangar	Eligible
41A	Storage	Eligible
41B	Storage	Eligible
42	Seaplane Hangar	Eligible
42A	Storage	Eligible
42B	Storage	Eligible
43	Seaplane Hangar	Eligible
43A	Storage	Eligible
43B	Storage	Eligible
44	Seaplane Hangar	Eligible
44A	Storage	Eligible
44B	Ready Magazine	Eligible
45	Seaplane Hangar	Eligible
45A	Storage	Eligible
45B	Ready Magazine	Eligible
46	Seaplane Hangar	Eligible
46B	Ready Magazine	Eligible
47	Seaplane Hangar	Eligible
47A	Storage	Eligible
47B	Ready Magazine	Eligible
51	Landplane Hangar	Eligible
51A	Storage	Eligible

FACILITY	USE	N. R. ASSESSMENT
53	Storage	Not eligible
55	Landplane Hangar	Eligible
56	Landplane Hangar	Eligible
56A	Storage	Eligible
56B	Storage	Eligible
57	Landplane Hangar	Eligible
57A	Storage	Eligible
57B	Storage	Eligible
58	Landplane Hangar	Eligible
58A	Storage	Eligible
52A	Storage	Not eligible
52B	Storage	Not eligible
52C	Storage	Not eligible
52D	Storage	Not eligible
52E	Storage	Not eligible
88	Storage	Not eligible
89	Link-Trainer Building	Not eligible
90	Officers' Club	Not eligible
92	Bathhouse	Eligible
93	Pump and Filter	Eligible
94	Swimming Pool	Eligible
97	Administrative	Not eligible
100	Auditorium	Eligible
101	Post Office/Administration	Not eligible
102	Gymnasium	Eligible
103	Gymnasium	Not eligible
105	Swimming Pool	Not eligible
105C	Valve House	Not eligible
117	Chapel	Eligible
119	Commissary	Not eligible
121	Package Store	Not eligible
122	Bathhouse	Not eligible
123	Swimming Pool	Not eligible
124	Tennis Courts	Not eligible
129	Administrative	Not eligible
149	Restaurant	Eligible
162	Abandoned	Not eligible
163	Transformer Vault	Not eligible
164	Transformer Vault	Eligible
168	Public Works Shop	Not eligible
170	Sewage Plant Disposal	Not eligible
172	Trickling Filter	Not eligible
173	Digestor No. 1	Not eligible
174	Secondary Clarifier No. 1	Not eligible
175	Drying Beds	Not eligible
176	Sewage Lift Station	Not eligible
177	Sewage Lift Station	Not eligible
178	Digestor	Not eligible
180	Secondary Clarifier No. 2	Not eligible

FACILITY	USE	N. R. ASSESSMENT
184	Garage/Storage	Not eligible
185	Garage/Storage	Not eligible
186	Garage/Storage	Not eligible
187	Garage/Storage	Not eligible
188	Garage/Storage	Not eligible
198	Gate House/Security	Not eligible
200	Garage/Storage	Not eligible
201	Garage/Storage	Not eligible
202	Garage/Storage	Not eligible
203	Garage/Storage	Not eligible
207	Transformer Vault	Not eligible
212	Tetrahedron	Not eligible
223	Baseball Field	Not eligible
240	Wading Pool	Eligible
247	Airplane Wash Rack	Not eligible
248	Airplane Wash Rack	Not eligible
249	Gymnasium	Eligible
250	Administrative	Not eligible
252	Correctional Facility	Eligible
255	Storage	Eligible
258	Storage	Not eligible
270	Photographic Lab	Not eligible
279	Transformer Vault	Not eligible
290	Generator	Not eligible
305	Wash & Grease Port	Not eligible
306	Bus & Truck Grease Pit	Eligible
318	Bank	Not eligible
324	Abandoned	Not eligible
330	Storage	Eligible
332	Chapel	Eligible
339	Motor Pool	Not eligible
343	Paint & Body Shop	Not eligible
345	Picnic Area Head	Not eligible
368	Storage	Not eligible
369	Abandoned	Eligible
372	Laboratory	Not eligible
383	Truck Shed	Not eligible
388	Heavy Equipment Wash Rack	Not eligible
389	Ramp	Not eligible
396	Sand Blasting Shed	Not eligible
578	Abandoned	Not eligible
1102	Installation/Cleaning Shed	Not eligible
1103	Storage	Not eligible
1134	Transformer Vault	Not eligible
1137	Storage	Eligible
1138	Storage	Not eligible
1152	Storage	Not eligible
1153	Service Station	Not eligible
1153A	Service Island	Not eligible

FACILITY	USE	N. R. ASSESSMENT
1219	Administrative	Not eligible
1250	Equipment Building	Not eligible
1850	Abandoned	Not eligible
1851	Abandoned	Not eligible
1852	Abandoned	Not eligible
A (SOQ-1)	Housing	Eligible
A-1	Storage	Not eligible
A-2	Pyrotechnics Magazine	Not eligible
A-3	Small Arms Magazine	Not eligible
A-4	Small Arms Magazine	Not eligible
A-5	Magazine	Eligible
A-6	Magazine	Eligible
A-7	Magazine	Eligible
A-9	Electrical Vault	Not eligible
A-11	Magazine	Eligible
A-14	Small Arms Magazine	Eligible
B (SOQ-2)	Housing	Eligible
B-B (Q-30)	Housing	Not eligible
B-1	Fuel Pier	Eligible
B-2	Abandoned	Eligible
B-3	Abandoned	Eligible
B-4	Abandoned	Eligible
B-5	Abandoned	Eligible
B-6	Abandoned	Eligible
B-7	Abandoned	Eligible
B-8	Abandoned	Eligible
B-9	Abandoned	Eligible
B-15A	Storage	Not eligible
B-16	Abandoned	Eligible
B-18	Abandoned	Eligible
B-20	Abandoned	Eligible
B-21	Abandoned	Eligible
B-22	Recreational Facility	Eligible
B-23	Abandoned	Eligible
B-24	Abandoned	Eligible
B-25	Abandoned	Eligible
B-26	Abandoned	Eligible
B-27	Recreational Facility	Eligible
B-28	Abandoned	Eligible
B-29	Abandoned	Eligible
B-32A	Breakwater	Eligible
B-32B	Breakwater	Eligible
B-33A	Breakwater	Eligible
B-33B	Breakwater	Eligible
B-34	Breakwater	Eligible
C (SOQ-3)	Housing	Eligible
C-C (Q-29)	Housing	Not eligible
D (SOQ-4)	Housing	Eligible
D-D (Q-28)	Housing	Not eligible

FACILITY	USE	N. R. ASSESSMENT
E (SOQ-5)	Housing	Eligible
E-E (Q-27)	Housing	Not eligible
E-79	Housing	Not eligible
E-97	Housing	Not eligible
E-115	Housing	Not eligible
E-116	Housing	Not eligible
F (SOQ-6)	Housing	Eligible
F-F (Q-26)	Housing	Not eligible
G (SOQ-7)	Housing	Eligible
G-G (Q-25)	Housing	Not eligible
H-9	Garage	Not eligible
H-45	Storage	Not eligible
H-54	Laundry	Not eligible
H (SOQ-8)	Housing	Eligible
H-A	Housing	Eligible
H-B	Housing	Eligible
H-C	Housing	Eligible
H-D	Housing	Eligible
H-E	Housing	Eligible
H-H (Q-24)	Housing	Not eligible
H-56	Swimming Pool	Not eligible
I (SOQ-9)	Housing	Eligible
I-I (Q-23)	Housing	Not eligible
J (SOQ-10)	Housing	Eligible
J-J (Q-22)	Housing	Not eligible
K (QTRS-11)	Housing	Not eligible
K-K (Q-21)	Housing	Not eligible
L	Housing	Eligible
L-1	Housing	Eligible
L-2	Housing	Eligible
L-L (Q-20)	Housing	Not eligible
M-M (Q-19)	Housing	Not eligible
Railway	Marine Railway	Not eligible
N-N (Q-18)	Housing	Not eligible
O-O (Q-17)	Housing	Not eligible
P-P (Q-16)	Housing	Not eligible
Q-Q (Q-15)	Housing	Not eligible
Quay wall	Quay Wall	Eligible
Railroad	NAS Railroad	Eligible
R-R (Q-14)	Housing	Not eligible
S-S (Q-31)	Housing	Not eligible
W-1	Water Pumphouse	Not eligible
W-2	Water Storage	Not eligible
W-3	Water Tower/Utilities	Eligible
W-4	Water Storage/Utilities	Not eligible
W-5	Water Storage	Not eligible

1.4.3 Dredging and Dredged Material Disposal

Dredging activities associated with the project involve new work dredging and subsequent maintenance of the Magnetic Silencing Facility EMR and check range and the AMCM sled training area off of NAS Corpus Christi and Encinal Channel, if alternatives to use those areas are selected. Dredging of the MSF facilities will require between 150,000 and 250,000 cubic yards of material to obtain the 30 feet of depth required for the facility and turning basin. Based upon previous dredging information obtained from the USACE (Beggs, 1994) along La Quinta Channel for the period 1975 through 1991, it is estimated that the 50-year maintenance requirement could range between 250,000 to 415,000 cubic yards, depending upon the initial area dredged. Dredging quantities for the AMCM sled training area and Encinal Channel, if required, are not known at this time.

Coordination with the USACE has determined that only the Navy's existing upland disposal area (Figure 1-25) is available for the disposal of dredged material (Beggs, 1994). The 336-acre site, referred to as the Trans American Natural Gas Corporation Site (U.S. Navy, 1986), is bounded on the west by the E.I. Dupont property; on the east by Exxon Pipeline Co. property; and on the south by Good Hope Refinery site. Currently, there is available volume for an additional 4.0 to 4.5 million cubic yards of disposal material. Additional capacity can be added by raising the levees in increments of four feet (Beggs, 1994).

Source: Draft EIS, March 1994 COMINEWARCOM, SOUTHNAVFACENGCOM

Class: I Recsrc # 1
Category: POLL. PREV. Sub: TOXIC RELEASE REDUC.
Issue Title:
INSTALL CARBON ADSORPTION UNITS ON PAINT BOOTHS

Description: INSTALL CARBON ADSORPTION OXIDATION OR INCINERATION UNITS TO CONTROL TOXIC EMISSIONS FROM TWO SPRAY PAINT BOOTHS.

Justification: EXPECTED CAA REGULATIONS WILL REQUIRE REDUCTION IN TOXIC EMISSIONS FROM PAINT SPRAYING OPERATIONS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	8E		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	0	250	0	0	0
AO/SAO:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FY	0	0	0	0	0	0

TAB A

Class: 2 Record # 2
Category: COMPLIANCE Sub: AIR
Issue Title:
POLLUTION CONTROL EQUIPMENT FOR MWR WOODSHOP

Description: INSTALL CYCLONE OR SIMILAR POLLUTION CONTROL EQUIPMENT ON WOOD WORKING MACHINES AT MWR WOOD SHOP.

Justification: EXPECTED CAA REGULATIONS REQUIRE CONTROL OF PARTICULATE EMISSIONS.

Activity Name:			UIC:	R/S:		
NASCORPC			00214	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	30	0	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 3 Record # 3
Category: COMPLIANCE Sub: AIR
Issue Title:
INSTALL CHARCOAL ADSORBER. SOLVENT DEGREASING OPS

Description: INSTALL CHARCOAL ADSORBER ON DEGREASING OPS FOR RECYCLE OR DISPOSAL.

Justification:EXPECTED CAA REGS WILL REQUIRE THIS.

Activity Name: UIC: R/S:
NASCORPC 00216 82

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	0	25	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: I Record # 8
Category: POLL. PREV. Sub: AIR EMISSION REDUC.
Issue Title:
INSTALL CHARCOAL ADSORBER, HELMET POURING OPERATIONS

Description: INSTALL CHARCOAL ADSORBER TO REDUCE QUANTITY OF AIR POLLUTANT COMMING FROM HELMET POURING OPS AT WING (BASSI).

Justification: EXPECTED CAA REGULATIONS WILL REQUIRE REDUCTION IN TOXIC AIR POLLUTANT RELEASES IN 1998.

Activity Name:			JIC:	R/S:		
NASCOFPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	0	25	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: I Record # 5
Category: POLL. PREV. Sub: AIR EMISSION REDUC.
Issue Title:
INSTALL PHASE I VAPOR RECOVERY SYSTEM

Description: INSTALL PH 1 VAPOR RECOVERY SYSTEMS AT PW AND NEX
GAS STATIONS.

Justification: EXPECTED CAA REGULATIONS WILL REQUIRE THIS WHEN
LOCAL AREA BECOMES NON ATTAINMENT AREA IN THE
FUTURE.

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	0	0	24	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 2 Record # 5
Category: COMPLIANCE Sub: AIR
Issue Title:
PREPARE TITLE V INVENTORY

Description: PREPARE TITLE V INVENTORY OF HAZARDOUS AIR POLLUTANTS. EMISSIONS INVENTORY ALREADY ACCOMPLISHED. THIS WILL BE FOR UPDATE.

Justification: REQUIRED PER EXISTING CAA REGULATIONS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	100	0	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: I Record # 7
Category: POLL. PREV. Sub: AIR EMISSION REDUC.
Issue Title:
SECURE TITLE V AIR POLLUTION PERMITS

Description: PREPARE MONITORING PROGRAM. HAZARDOUS AIR POLLUTION EMISSIONS REDUCTION PLAN. ETC AS NECESSARY FOR SECURING AIR PERMITS.

Justification:EXPECTED CAA REGULATIONS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN .	0	200	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 2 Record # 8
Category: COMPLIANCE Sub: AIR
Issue Title:
REPLACE R-12 AC UNITS

Description: REPLACE 18 EXISTING R-12 AC UNITS WITH UNITS THAT USE FREON THAT IS LESS DAMAGING TO OZONE LAYER.

Justification: CAA WILL MAKE IT NECESSARYY TO REPLACE UNITS DUE TO NON AVAILABILITY OF FREON. ALSO ASN DIRECTIVE OF DEC 93 REQUIRES REPLACEMENT.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	200	200	200	200	200	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 2 Record # 9
Category: COMPLIANCE Sub: AIR
Issue Title:
REPLACE PORTABLE HALON EXTINGUISHERS

Description: REPLACE PORTABLE HALON FIRE EXTINGUISHERS LOCATED AT VARIOUS POINTS AROUND THE STATION.

Justification: CAA AND DOD POLICY IS THAT ONLY MISSION ESSENTIAL HALON SYSTEMS IS ALLOWED.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
ONM	20	0	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 2 Record # 10
Category: COMPLIANCE Sub: AIR
Issue Title:
REPLACE HALON IN FIRE SUPRESSION SYSTEMS

Description: REPLACE THE ODS TYPE HALON IN EXISTING BUILDING FIRE SUPRESSION SYSTEMS.

Justification: CAA REQUIRES HALON SYSTEMS BE REPLACED EXCEPT IN MISSION SENSITIVE (MILITARY) APPLICATIONS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
ONM	50	100	100	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 2 Record # 17
Category: COMPLIANCE Sub: OTHER LAWS & REGS.
Issue Title:
UPDATE PEST MGMT PLAN

Description: UPDATE STATION PESTICIDE MANAGEMENT PLAN TO MINIMIZE USE OF HARMFUL PESTICIDES.

Justification: EPA REGULATIONS REQUIRE DOD FACILITIES PEST MGMT PLANS EVERY 3 YEARS.

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	5	0	0	5	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
EXFX	0	0	0	0	0	0

Class: 1 Record # 20
Category: COMPLIANCE Sub: WATER
Issue Title:
INSTALL/MAINTAIN BACKFLOW PREVENTERS

Description: CROSSCONNECT STUDY IS IN PROGRESS. MANY NEW BACKFLOW PREVENTERS ARE LIKELY TO BE REQUIRED. ALSO EXISTING ONES NEED SERVICED YEARLY.

Justification: SWDA AND STATE DRINKING WATER REGS REQUIRE BACKFLOW PREVENTERS. THIS WAS ALSO A 1992 ECE FINDING.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	100	50	10	10	10	10
AS/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 1 Record # 21
Category: COMPLIANCE Sub: WATER
Issue Title:
PREPARE INDUSTRIAL WASTE MGMT PLAN

Description: PREPARE IND WASTE MGMT PLAN FOR WASTEWATER TREATMENT PLANT.

Justification: REQUIRED PER 40 CFR 122 AND OPNAVINST 5090.1A (CH 7-5.2.4). ALSO NOTED AS 1992 ECE FINDING.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	50	0	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: I Record # 24
Category: POLL. PREV. Sub: TOXIC RELEASE REDUC.
Issue Title:
CONSTRUCT MWR PESTICIDE CONTROL BLDG

Description: CONSTRUCT NEW PEST CONTROL BLDG FOR MWR SO THAT MIXED PESTICIDES ARE CLOSER TO POINT OF USE. PW PEST CONTROL BLDG IS TOO FAR AWAY.

Justification: RECOMMENDATION OF PEST MGMT STAFF IN 1992 ECE.

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	200	0	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 2 Record # 28
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
UPGRADE/COUNSTRUCT SATTELLITE ACCUMULATION AREAS

Description: STATION HAS MULTI SATELLITE ACCUMULATION POINTS THAT COULD BENEFIT FROM UPGRADES.

Justification: RCRA AND EXISTING STATE REGS. ESTIMATE 10 SATELLITES REQUIRE UPGRADE TO BETTER MEET FUTURE. TIGHTER REGS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	20	20	20	20	20	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 1 Record # 30
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
ASSESS/SURVEY HAZWASTE DISCHARGES TO NOTW

Description: CONDUCT FACILITY WIDE SURVEY TO DETERMINE IF 261.3 EXCLUSION APPLIES. THIS ENTAILS STUDY OF ALL DISCHARGES TO NOTW COLLECTOR SYSTEM.

Justification:RCRA

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	50	0	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 3 Record # 42
Category: COMPLIANCE Sub: WATER
Issue Title:
CONDUCT WATER CONSERVATION PROGRAM STUDY

Description: CONDUCT STUDY TO FIND OUT HOW TO DEVELOP AND IMPLEMENT WATER REDUCTION TECHNIQUES.

Justification: STATE SDWA AND OPNAVINST 5090.1A. SOUTH TEXAS EXPERIENCES PERIODIC DROUGHTS AND STATION MUST BE READY REDUCE WATER USE.

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	150	0	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 1 Record # 52
Category: COMPLIANCE Sub: OTHER LAWS & REGS.
Issue Title:
TOXIC RELEASE INVENTORY REPORTING

Description: GATHER DATA ON USE AND RELEASES OF TOXIC CHEMICALS AND EXTREEMLY TOXIC CHEMICALS USED IN THE WORKPLACE FOR LEPC/STATE.

Justification:EXECUTIVE ORDER 12856.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	150	150	150	150	150	150
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 1 Record # 53
Category: COMPLIANCE Sub: OTHER LAWS & REGS.
Issue Title:
TOXIC RELEASE REDUCTION TECHNOLOGY

Description: IMPLEMENT REDUCTION/METHOD CHANGES THAT WILL MINIMIZE QTY OF HAZARDOUS MATERIAL USED. THUS REDUCING TOXIC RELEASES.

Justification: EXECUTIVE ORDER 12856 REQUIRES A 50% REDUCTION BY YEAR 2000.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	50	50	50	50	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 3 Record # 64
Category: COMPLIANCE Sub: OTHER LAWS & REGS.
Issue Title:
LEAD BASED PAINT REMOVAL

Description: PROVIDE FOR COST OF REMOVAL OF LEAD PAINT FROM CHILD CARE, HOUSING, WORK AREAS, ETC.

Justification:HUD REGULATIONS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	200	200	200	200	200	200
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: I Record # 25
Category: POLL. PREV. Sub: WATER POLL. REDUC.
Issue Title:
CONSTRUCT DOMESTIC SEWER PLANT

Description: CONSTRUC A NEW DOMESTIC SEWER PLANT TO REPLACE EXISTING ONE THAT WAS BUILT IN 1942.

Justification: EXISTING PLANT IS OLD, AND ONLY PROVIDES PRIMARY AND SECONDARY TREATMENT. A NEW PLANT IS NEEDED FOR FUTURE.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
MILCON	5450	0	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Pages 21 – 49 are not applicable. ~~R Stender~~
CNEI
R. Stender

Class: 1 Record # 11
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
REPAIR/REPLACE DAMAGED MONITOR WELLS

Description: RCRA AND IRP WELLS ARE OFTEN DAMAGED BY GROUNDS MAINTENANCE OR SIMPLY CORRODE IN SALT AIR.

Justification: RCRA (40 CFR 265) REQUIRES THE WELLS BE MAINTAINED.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	5	5	5	5	5	5
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 1 Record # 12
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
IW SLUDGE BED, POSTCLOSURE MONITORING

Description: INDUSTRIAL SULDGE BEDS ARE RCRA UNITS THAT ARE BEING CLOSED. UNLESS CLEAN CLOSED (UNLIKELY) POSTCLOSURE MONITORING IS RQMT. THYPUNUOSTCLO ER G

Justification: RCRA RQMT (40 CFR 265)

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	15	15	20	20	20	20
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 1 Record # 13
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
HAZWASTE LAB ANALYSIS

Description: PERFORM ANALYSIS ON NEW WASTE STREAMS AND ANUAL ANALYSIS ON HAZWASTE FOR DISPOSAL PURPOSES.

Justification: RCRA REGULATIONS AND STATE HAZWASTE PERMIT REQUIRES THESE ANALYSES.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	100	125	150	150	150	150
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 1 Record # 14
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
HAZWASTE DISPOSAL

Description: DISPOSE OF INDUSTRIAL/HAZWASTE BY SHIPMENT TO PERMITTED DISPOSAL FACILITIES (VIA DRMO OR STATION CONTRACT).

Justification: RCRA AND STATE REGULATORY RQMT.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	100	100	100	150	150	150
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 2 Record # 15
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
UST REMOVAL

Description: UNDERGROUND STORAGE TANKS THAT ARE STEEL CONTINUE TO BE IDENTIFIED. THESE REQUIRE REMOVAL AND CLEANUP OF SOILS.

Justification: RCRA (HSWA AMMENDMENTS) REQUIRE REMOVAL OF LEAKING/NON-COMPLIANT USTS. ESTIMATE 2 OR 3 TANKS PER YEAR.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	50	50	50	50	50	50
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 1 Record # 16
Category: COMPLIANCE Sub: ASSESS. & PLANNING
Issue Title:
A&E SERVICES

Description: A&E SERVICES NECESSARY TO PREPARE PLANS, STUDIES ETC THAT ARE REQUIRED FOR THE STATION ENVMTL PROGRAM.

Justification: RCRA, CAA, CWA, SWDA, NESHAPS, TSCA, ETC.

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	150	150	150	150	150	150
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 3 Record # 18
Category: POLL. PREV. Sub: AIR EMISSION REDUC.
Issue Title:
CONSTRUCT CORROSION CONTROL FACILITY

Description: CONSTRUCT NEW CORROSION CONTROL FACILITY FOR ACFT MAINTENANCE IN ANTICIPATION OF STRICTER ENVMTL REGS.

Justification: ANTICIPATION OF STRICTER RCRA, CWA AND CAA REGS.

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
MILCON	0	5500	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 1 Record # 19
Category: COMPLIANCE Sub: WATER
Issue Title:
UPDATE SPCC PLAN

Description: YEARLY UPDATE OF SPCC PLAN IS REQUIRED TO TAKE INTO ACCOUNT CHANGES IN OPS/FACILITIES ASSOCIATED WITH STORAGE TANKS.

Justification: CWA (40 CFR 122) REQUIRES PLAN BE UPDATED EVERY YEAR.

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	2	2	2	2	2	2
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 1 Record # 23
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
FUEL IN GROUND REMOVAL

Description: OLD USTS AT 216 FUEL FARM LEAKED AND THERE IS NOW FREE FLOATING PRODUCT THAT NEEDS REMOVED.

Justification: 1986 CONSENT DECREE MANDATES THE NAVY CONTINUE TO REMOVE FREE PRODUCT.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	25	25	25	25	25	25
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 3 Record # 26
Category: POLL. PREV. Sub: AIR EMISSION REDUC.
Issue Title:
ASBESTOS ABATEMENT

Description: STATIOWIDE SURVEY HAS BEEN COMPLETED. APPROX $6.6M OVER SEVERAL YEARS IS NEEDED TO REMOVE ASBESTOS.

Justification: REMOVAL OF ASBESTOS REDUCES OCCUPATIONAL EXPOSURE RISK AND SUBSEQUENT POTENTIAL LAWSUITS AGAINST THE GOVT.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
NAVOSH	750	750	750	750	750	750
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 1 Record # 27
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
ANNUAL HAZWASTE MANAGEMENT PLAN UPDATES

Description: CHANGES TO HAZWASTE MGMT PLAN ARE NEEDED TO TO REFLECT OPERATIONAL CHANGES. THIS MUST BE DONE ANUALLY.

Justification: RCRA AND STATE REGS REQUIRE PLAN BE UPDATED ANUALLY.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	20	20	20	20	20	20
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 1 Record # 29
Category: POLL. PREV. Sub: HAZWASTE DISP. INIT.
Issue Title:
POLLUTION PREVENTION EQUIPMENT INSTALLATION

Description: PURCHASE AND INSTALL POLLUOTION PREVENTION EQUIPMENT THAT WILL REDUCE/MINIMIZE QTY OF HAZWASTE THAT IS GENERATED.

Justification: RCRA. OPNAVINST 5090.1A AND STATE REGS MANDATE POLLUTION REDUCTION BE ACHIEVED.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	500	500	500	500	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 2 Record # 31
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
UPDATE HAZWASTE STORAGE PERMIT

Description: EXISTING HAZWASTE STORAGE PERMIT WILL BE UPDATED IN 1995 AND MUST BE RENEWED EVERY FIVE YEARS.

Justification:RCRA AND STATE REGS REQUIRE THE UPDATE.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	0	0	75	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 3 Record # 32
Category: POLL. PREV. Sub: SOLID WASTE REDUC.
Issue Title:
SOLID WASTE COMPOST FACILITY

Description: CONSTRUCT ON-SITE COMPOST FACILITY TO REDUCE QTY OF REFUSE DISPOSED OF AT MUNICIPAL LANDFILL. WILL INCLUDE RECYCLE YARD, ETC.

Justification: RCRA (HSWA) REQUIRES 50% REDUCTION BY YEAR 2000.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
MILCON	0	0	0	5000	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 3 Record # 43
Category: COMPLIANCE Sub: WATER
Issue Title:
INSTALL WATER CONSERVATION TECHNIQUES/DEVICES

Description: IMPLEMENTATION OF WATER CONSERVATION FINDINGS TO INCLUDE FLOW LIMITERS, FIXIN LEAKS, XERISCAPING.

Justification: STATE SDWA, OPNAVINST 5090.1A. ALSO POTENTIAL COST SAVINGS.

Activity Name:	UIC:	R/S:
NASCORPC	00216	88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	100	100	100	100	100
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 3 Record # 44
Category: COMPLIANCE Sub: WATER
Issue Title:
PERFORM HYDRAULIC ANALYSIS OF WATER DISTRIBUTION SYSTEM

Description: EVALUATE SYSTEM TO DETERMINE IF 20PSI DURING FIRE FLOW EXISTS.

Justification:STATE SAFE DRINKING WATER RQMT.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	50	0	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: 3 Record # 45
Category: COMPLIANCE Sub: WATER
Issue Title:
PERFORM HYDRAULIC IMPROVEMENTS TO WATER DISTRIBUTION SYSTEM

Description: INSTALL NEW LINES, ETC BASED UPON HYDRAULIC STUDY.

Justification:STATE SDWA.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	0	0	0	200	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
	0	0	0	0	0	0

Class: O Record # 47
Category: COMPLIANCE Sub: OTHER LAWS & REGS.
Issue Title:
ASBESTOS WORKER TRAINING

Description: PROVIDE IN-HOUSE ASBESTOS ABATEMENT TEAM WITH NECESSARY TRAINING.

Justification: PL 101-637 AND 40 CFR 763 MANDATE ASBESTOS WORKERS BE PROPERLY TRAINED.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	3	3	3	3	3	3
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 1 Record # 48
Category: COMPLIANCE Sub: OTHER LAWS & REGS.
Issue Title:
DOT TRAINING FOR HAZWASTE SHIPMENTS

Description: TRAINING/TRAVEL FOR ENVNTL STAFF TO PROPERLY SHIP HAZWASTE PER NEW DOT REGULATIONS.

Justification: DOT HM181 REGULATIONS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	3	3	3	3	3	3
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 1 Record # 49
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
HAZWASTE TRAINING

Description: PROVIDE STAFF WITH TRAVEL/TRAINING FOR RCRA, UST, CONTAMINATION ASSESSMENT, LEAD PAINT, AND SARA TITLE III.

Justification: RCRA REQUIRES HAZWASTE PERSONNEL BE TRAINED YEARLY.

Activity Name: UIC: R/S:
NASCORPC 00216 88

APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	30	30	35	35	35	40
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 1 Record # 50
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
SPILL RESPONSE EQUIPMENT/SUPPLIES

Description: PURCHASE NEW EQUIPMENT/SUPPLIES AND MATERIALS TO REPLENISH EMERGENCY SPILL ITEMS THAT ARE USED OR OBSOLETE.

Justification: RCRA AND STATE REGS REQUIRE THE STATION HAVE ABILITY TO RESPOND TO HAZWASTE SPILLS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	10	10	15	15	15	15
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	0	0	0	0	0	0

Class: 1 Record # 54
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
RFI CORRECTIVE ACTION

Description: PERFORM CORRECTIVE ACTION AT SWMU'S AS A CONDITION PRECEDENT TO OUR HAZWASTE PERMIT. STATION HAS 15 SWMU'S TO CLEAN UP.

Justification:RCRA 3008(H)

Activity Name:			UIC:	R/S:		
NASCORPC			00216	8E		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	100	200	100	0	0	0
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 1 Record # 55
Category: COMPLIANCE Sub: WATER
Issue Title:
BIOMONITORING

Description: CONTRACT COST TO PERFORM BIOMONITORING ON THE EFFLUENT FROM THE STATIONS WASTEWATER TREATMENT PLANT PER NPDES PERMIT.

Justification: CWA AND EQUIVALENT STATE REGS REQIURE WE COMPLY WITH THE CONDITIONS OF OUR NPDES PERMIT.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	20	20	20	20	20	20
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	0	0	0	0	0	0

Class: 1 Record # 56
Category: COMPLIANCE Sub: HAZWASTE
Issue Title:
HAZWASTE STAFFING

Description: STAFFING FOR PROGRAM OVERSIGHT AND ACTUAL WASTE HANDLING.

Justification:RCRA AND STATE REGULATIONS.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	260	280	300	300	300	300
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FT	8	8	9	9	9	9

Class: 1 Record # 57
Category: COMPLIANCE Sub: AIR
Issue Title:
AIR PROGRAM STAFFING

Description: STAFFING IN SUPPORT OF CAA RQMTS. ODS, TOXIC REDUCTION, ETC.

Justification:CAA

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	70	70	100	100	100	100
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	2	2	3	3	3	3

Class: 1 Record # 58
Category: COMPLIANCE Sub: WATER
Issue Title:
SDWA/CWA SUPPORT STAFFING

Description: ENGINEERS AND CHEMISTS IN SUPPORT OF THE SDWA AND CWA PROGRAMS. PREPARE STUDIES, LAB TESTING AND ENSURE COMPLIANCE WITH REGS.

Justification: CWA AND SDWA

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	200	200	240	240	240	240
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	5	5	6	6	6	6

Class: 1 Record # 59
Category: COMPLIANCE Sub: ASSESS. & PLANNING
Issue Title:
ENVMTL SUPPORT STAFFING

Description: PROVIDE STAFFING FOR NEPA, TSCA, FIFRA AND VARIOUS RELATED STATE AS WELL AS DOD/DON RQMTS THAT MUST BE MET.

Justification:NEPA,FIFRA,TSCA

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	70	70	70	70	70	70
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	2	2	2	2	2	2

Class: 1 Record # 63
Category: POLL. PREV. Sub: HAZWASTE DISP. INIT.
Issue Title:
STAFFING FOR POLLUTION PREVENTION INITIATIVES

Description: STAFFING TO IMPLEMENT POLLUTION PREVENTION INITIATIVES AS REQUIRED PER STATE LAW.

Justification: RCRA AND STATE LAW.

Activity Name:			UIC:	R/S:		
NASCORPC			00216	88		
APPN:	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:
OMN	120	120	120	160	160	160
AG/SAG:	MP96:	MP97:	MP98:	MP99:	MP00:	MP01:
E4FX	3	3	3	4	4	4

225

Command: **NAS Corpus Christi**

Data Call Number Thirty Three/Amendments One and Two Revision
(Page 6)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

T. W. WRIGHT
NAME

Signature

CNET
Title

8-19-94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. GREENE, JR.
NAME

Signature

ACTING
Title

22 AUG 1994
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, Replacement page 6 for Data call THIRTY THREE

W. F. MONTESANO, CAPT, USN
NAME (Please type or print)

Frank Montesano
Signature

COMMANDING OFFICER
Title

7-29-94
Date

Naval Air Station, Corpus Christi
Activity

Command: **NAS Corpus Christi**

Data Call Number Thirty-Three/Amendments One and Two Revisions
(Pages 20, and 20a-20c)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

P. E. TOBIN
NAME

PETobin
Signature

Acting
Title

08 SEP 1994
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME

WAEarner
Signature

Title

9/12/94
Date

This certification for UIC 00216 BRAC-95, Replacement pages 20, 20a, 20b, and 20c for Data call THIRTY THREE (Station Revisions of 8/22/94)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

22AUG94
Date

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

W. B. HAYDEN, RADM, USN
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING
Title

15SEP94
Date

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

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ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, Replacement pages 20, 20a, 20b and 20c for Data call THIRTY THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

22 AUG 94
Date

Naval Air Station, Corpus Christi
Activity

Command: **NAS Corpus Christi**

Data Call Number Thirty Three/Amendments One and Two Revision
(Pages 21)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

T. W. WRIGHT
NAME

Signature

CNET
Title

9-13-94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME

Signature

Title

9/21/94
Date

BRAC-95 DATA CALL 33
NAS CORPUS CHRISTI UIC-00216

This certification for UIC 00216 BRAC-95, Replacement page 21 for Data call THIRTY THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

Date 9/2/94

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

W.B. HAYDEN RADM
NAME (Please type or print)

Signature

Chief of Naval Air Training
Title

Date 7SEP94

Naval Air Training Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, Replacement page 21 for Data call THIRTY THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

9-2-94
Date

Naval Air Station, Corpus Christi
Activity

R

Command: **NAS Corpus Christi**

Data Call Number Thirty Three/Amendments One and Two Revisions
(Pages 15, 16, 16a, and 16b)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

T. W. WRIGHT
NAME

TW Wright
Signature

CNET
Title

18 Nov 94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME

WA Earner
Signature

Title

12/2/94
Date

R

This certification for UIC 00216 BRAC-95, Replacement page 15 and 16 for Data call THIRTY THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

09NOV94
Date

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING (ACTING)
Title

9 NOV 94
Date

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

R

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, Replacement page 15 and 16 for Data call THIRTY THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Frank Montesano
Signature

COMMANDING OFFICER
Title

8 Nov 94
Date

Naval Air Station, Corpus Christi
Activity

Document Separator

RESPONSE TO CAPTAIN BUZZELL INQUIRIES

Numbers reflect student input for FY99

	PRIMARY	INT E2/C2	INT MAR	INT HELO	ADV MAR
USN	585	40	151	210	124
USMC	328	0	30	184	29
CG	38	0	0	38	0
FMS	140	0	45	65	45
NOAA	2	0	2	0	2
USAF	100	0	0	0	151
SUBTOTAL	1193	40	228	497	351
Other students trained at USAF that are not included above					
USN	70	0	0	0	25
USMC	30	0	0	0	0
TOTAL	1293	40	228	497	376

Command: **CNET**

Response to Captain Buzzell Inquiries
(Primary Pilot, Intermediate E2/C2, Intermediate Maritime, and Intermediate Helicopter)

(Page 4/4)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

P. E. TOBIN	PETobin
NAME	Signature
Acting	12/28/94
Title	Date
CNET	
Activity	

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
NAME (Please type or print)

P R Statskey
Signature

CHIEF OF NAVAL AIR TRAINING (ACTING)
Title

23 DEC 94
Date

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

W B Earner
Signature

Title

12/29/94
Date

Document Separator

MILITARY VALUE ANALYSIS:
DATA CALL WORK SHEET FOR
TRAINING AIR STATION: Naval Air Station, Corpus Christi UIC 00216

Category .....Education and Training
Sub-category .....Training Air Stations
Types .....Navy and Marine Corps Training Air Stations and Facilities

************If any responses are classified, attach separate classified annex.************

25 April 1994

TRAINING AIR STATION LISTING:

Type	Title	Location
AIR STATION	NAS PENSACOLA	PENSACOLA FL
AIR STATION	NAS CORPUS CHRISTI	CORPUS CHRISTI TX
AIR STATION	NAS MERIDIAN	MERIDIAN MS
AIR STATION	NAS KINGSVILLE	KINGSVILLE TX
AIR STATION	NAS WHITING FIELD	MILTON FL

Mission Requirements 1
A. Undergraduate Pilot/NFO Training 1
B. Other Training 3
C. Operational Squadron Support 8
D. Managed Training Areas 10
E. General Military Support 11
F. Other Support 13

Facilities 14
A. Air Space and Flight Training Areas 14
B. Airfields 28
C. Ground Training Facilities 35
D. Aircraft Maintenance Facilities 36
E. Ship Berthing and Maintenance Facilities 37
F. Special Military Facilities 39
G. Non-DON Facility Support Arrangements 40

Location 42
A. Proximity to Operational Mission Areas 42
B. Proximity to Training Areas 43
C. Proximity to Other Support Facilities 44

Features and Capabilities 45
A. Weather 45
B. Encroachment 47
C. Quality of Life 49
D. Ability for Expansion 73
E. Unique features 78

Annex 79
A. Berthing Capacity 79
B. Weapons and Munitions 84
C. Maintenance Repair and Equipment Expenditures 88

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Mission Requirements

A. Undergraduate Pilot/NFO Training

1. Indicate in the table below the types of undergraduate pilot and NFO training currently conducted at your air station. Also give the number of pilots and NFOs trained in FY 1991, FY 1992, and FY 1993 at your air station .

Level/Type Training	Yes/No	PTR/NFOTR			
		FY 91	FY 92	FY 93	
Officer Candidate Training	NO				
Aviation Pre-flight Indoc	NO				
Primary Pilot	YES	312	317	294	
Intermediate Strike	NO				
Advanced Strike	NO				
Intermediate E2/C2	YES		47	49	
Advanced E2/C2	YES	38	44	9	
Intermediate Maritime (T-34C)	YES	60	60	183	R
Advanced Maritime	YES	314	317	217	
Intermediate Helo (T-34C)	YES	113	134	35	R
Advanced Helo	NO				
Primary NFO	NO				
Intermediate NFO	NO				
Tactical Navigator (TN/BN)	NO				
Radar Intercept Officer (RIO)	NO				
Overwater Jet Navigator (OJT)	NO				

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Mission Requirements

A. Undergraduate Pilot/NFO Training

1. Indicate in the table below the types of undergraduate pilot and NFO training currently conducted at your air station. Also give the number of pilots and NFOs trained in FY 1991, FY 1992, and FY 1993 at your air station .

Level/Type Training	Yes/No	PTR/NFOTR		
		FY 91	FY 92	FY 93
Officer Candidate Training	NO			
Aviation Pre-flight Indoc	NO			
Primary Pilot	YES	312	317	294
Intermediate Strike	NO			
Advanced Strike	NO			
Intermediate E2/C2	YES	N/A	47	49
Advanced E2/C2	YES	38	44	9
Intermediate Maritime (T-34C)	YES	*	60	183
Advanced Maritime	YES	314	317	217
Intermediate Helo (T-34C)	YES	*	134	335
Advanced Helo	NO			
Primary NFO	NO			
Intermediate NFO	NO			
Tactical Navigator (TN/BN)	NO			
Radar Intercept Officer (RIO)	NO			
Overwater Jet Navigator (OJT)	NO			

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***MARITIME/HELO were not tracked separately that year - Total 172**

Mission Requirements

A. Undergraduate Pilot/NFO Training (cont.)

2. Indicate in the table below which other types of undergraduate pilot and NFO training (if any) were conducted at your air station during the past ten years (i.e., since FY 1984) and give the year when each type training ended.

Type/Level Training	Yes/No	Year Training Ended
Officer Candidate Training	No	
Aviation Pre-flight Indoc	No	
Primary Pilot	Yes	On-going
Intermediate Strike	No	
Advanced Strike	No	
Intermediate E2/C2	Yes	On-going
Advanced E2/C2	Yes	FY93
Intermediate Maritime (T-34C)	Yes	On-going
Advanced Maritime	Yes	On-going
Intermediate Helo (T-34C)	Yes	On-going
Advanced Helo	No	
Primary NFO	No	
Intermediate NFO	No	
Advanced Navigator (NAV)	No	
Tactical Navigator (TN/BN)	No	
Radar Intercept Officer (RIO)	No	
Overwater Jet Navigator (OJT)	No	
Airborne Tactical Data System (ATDS)	No	

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Mission Requirements

B. Other Training

1. Using the categories identified below, list all other officer training (i.e., non-undergraduate pilot/NFO training) by activity conducted at your air station. For each type training, give the FY 1993 throughput in terms of number of students trained that year. Also give the average number of students on board (AOB) for each activity.

Other Officer Training							
	FY 1993 Throughput (students per year)						
Activity Name	OA	IS	SP	FO	PD	Other	AOB
T-34 IUT			22				5.2
T-44 IUT			11				2.6
TPS			5				.8
Transition Pilot			4				.6

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Training Categories:
OA (Officer Acquisition) IS (Initial Skills) PD (Professional Development)
SP (Skills Progression) FO (Functional Officer)

Use the following formula to calculate "AOB:"

$$\frac{\text{Activity Throughput (OA+IS+SP+FO+PD) x Avg Number of days each student was aboard}}{250}$$

Mission Requirements

B. Other Training

1. Using the categories identified below, list all other officer training (i.e., non-undergraduate pilot/NFO training) by activity conducted at your air station. For each type training, give the FY 1993 throughput in terms of number of students trained that year. Also give the average number of students on board (AOB) for each activity.

Other Officer Training							
	FY 1993 Throughput (students per year)						
Activity Name	OA	IS	SP	FO	PD	Other	AOB
T-34 IUT			30				7.1
T-44 IUT			10				2.3
TPS			10				1.5
Transition Pilot			4				.6

Training Categories:
OA (Officer Acquisition) IS (Initial Skills) PD (Professional Development)
SP (Skills Progression) FO (Functional Officer)

Use the following formula to calculate "AOB:"

$$\frac{\text{Activity Throughput (OA+IS+SP+FO+PD) x Avg Number of days each student was aboard}}{250}$$

Mission Requirements

B. Other Training (cont.)

2. Using the categories given below, list all enlisted training conducted at your air station. For each type training, give the FY 1993 throughput in terms of number of students trained that year. Also give the average number of students on board (AOB) for each activity.

None conducted

Enlisted Training						
	FY 1993 Throughput (Students per Year)					
Activity Name	A	IS	SP	FE	PD	AOB

Training Categories:

A (Apprentice) **SP (Skills Progression)** **PD (Professional Development)**
IS (Initial Skills) **FE (Functional Enlisted)**

Use the following formula to calculate "AOB:"

$$\frac{\text{Activity Throughput (OA+IS+SP+FO+PD) x Avg Number of days each student was aboard}}{250}$$

Mission Requirements

B. Other Training (cont.)

3. List all ground combat units that train at this air station.

Ground Unit	Training Function / Training Facilities Used
CBU-407	Administration, Shop, Warehouse, Personnel support facilities

4. List all other units not previously mentioned (active, reserve, guard, etc.) that train at this air station.

Operational Unit	Training Function / Training Facilities Used
Colombian National Police (CNP)	Maintenance
Det 2 CO E 106th Avn	Maintenance
70th General Supply CO	Supply
CO F 238 Avn	Maintenance
CO D 2-147th Avn	Maintenance
MS AVCRAD (1108th)	Maintenance
CO F 147th Avn	Maintenance
CA AVCRAD (1106TH)	Maintenance and Supply
60th SOAR USARF	Maintenance
F CO 135th Avn	Maintenance
5034th USARF Sch	Maintenance
CO B 5th bR 159TH	Maintenance
Det 1 CO F 135th Avn	Maintenance
Det 2 CO D 109th Avn	Maintenance and Supply
CO L 158th AVN	Maintenance
CO F 126th AVN	Maintenance

1st BN 168th Avn	Maintenance
Det 1 403rd Garrison	Maintenance
1109th AVCRAD	Maintenance
1106th AVCRAD	Maintenance
ASF Little Rock	Maintenance
USAFA Command Fort Sill	Maintenance
DOL 6th JD	Maintenance
HQI Corps Fort Lewis	Maintenance
MO AVCRAD 1105th	Maintenance
5038th USARF Sch	Maintenance
ASH Houston	Maintenance
CO D 137th Avn	Maintenance
HHC 1-13th Avn Rgt	Maintenance
USMR AAOD	Maintenance
MT Sch MTTs Eval Br	Maintenance
Ofc of Def OPNS (Greece)	Maintenance
USDAO (Brazil)	Maintenance
ASF #27	Maintenance
USARASF Dallas	Maintenance
USNR VOLTRAUNIT 1004	Administrative and classroom spaces
USNR LSO Corpus Christi 110	Administrative and classroom spaces
USNR MOBASCONTGRP	Administrative and classroom spaces
USNR SIMA San Diego 310	Administrative and classroom spaces
USNR NH Pensacola 610	Administrative and classroom spaces
USNR WPNSTA Concord 1010	Administrative and classroom spaces

USMCR 4th MarDiv 1/23 Det C	Administrative and classroom spaces
NMCB 22 Det 0722	Administrative and classroom spaces
MIUW 108	Administrative and classroom spaces
USMCR Company 'C', 1st Bn, 23rd Marines	Administrative, shop and classroom spaces
Marine Safety Office Corpus Christi (USCG)	Administrative and operational spaces
Reserve Unit Group Corpus Christi (USCGR)	Administrative and operational spaces
Albuquerque Reserve Unit (USCGR)	Administrative and operational spaces
302nd Engineer Company	Administrative and classroom and shop spaces

*** List all requirements the air station or its tenants have to support fleet training of other Navy and Marine Corp forces (e.g., ground force training, battle group exercise, etc.)**

Forces	Location/ Distance	Type of Support	Frequency
COMINEWARCOM Ships	10nm NE	Command and Control	2/yr
COMINEWARCOM Helicopters	Onboard	Command and Control	2/yr

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Mission Requirements

C. Operational Squadron Support

1. List the fleet operational (active or reserve) or special squadrons based at your air station. Include any programmed additions or deletions through FY 1997.

Squadron Name	Aircraft Type(s)	Mission
HM ~~14~~ "XX"	H-53	Mine Warfare
HM ~~14~~ "XX"	H-53	Mine Warfare

2 CHATRA N3 Squadron Names Not yet determined

2. List all other DoD, non-DoD, and other aircraft which are or are programmed (through FY 1997) to be parked or stationed at your air station.

Service/Agency/ Custodian	Aircraft Type(s)	Mission
U.S. Customs	P3, C550	Drug Traffic Interdiction
U.S. Coast Guard	H65, HU25	Patrol and SAR
U.S. Army	All Army Helo's C-23	Depot Maintenance
~~TRAWING FOUR~~	~~T-34C, T-44~~	~~Undergraduate pilot training~~
NASCORPC	C-12, UH-1	Logistics and SAR

2 CHATRA N3

3. List the types and number of transient aircraft supported at this air station during FY 1993 and describe the training and/or military missions conducted by these aircraft while stationed here.

Types of Aircraft	Description of Frequency, Quantity and Primary Mission
FA-18	14 occasions, 3 aircraft, offshore training
AV-8	6 occasions, 3 aircraft, offshore training
J-PATS	4 occasions, 1 aircraft, orientation
H-53	1 occasion, 6 aircraft, Mine Warfare
TA-4	*
T-2	*
C-141	Logistic Support (Helo transport to and from CCAD)
C-5	Logistic Support (Helo transport to and from CCAD)
All DOD Aircraft	Periodic Transient

* TW-2 routinely conducts training from NASCORPC on weekends.

Mission Requirements

C. Operational Squadron Support (cont.)

4. Provide the average daily number of flight operations conducted by non-training military aircraft assigned to this station and the total number of days during which these operations were conducted. If data is not normally recorded, include estimates (and identify as such). A flight operation is defined as a take-off, landing, or approach without a landing.

***Auxiliary fields are only used by TW-4 aircraft.**

FY	Main Airfield		Cabaniss Field		Waldron Field		Aransas County Field	
	No. Ops **	No.[1] Days **	No. Ops	No. Days	No. Ops	No. Days	No. Ops	No. Days
1991	12	237	0	0	0	0	0	0
1992	12	237	0	0	0	0	0	0
1993	11	237	0	0	0	0	0	0
1994[2]	7	119	0	0	0	0	0	0

**** THIS data is not recorded. Estimates are based on number of sorties flown by station C-12, UH-1, and CNATRA A-4.**

5. List deployable aviation support units (e.g., Command & Control, Expeditionary Base Support, and Air Defense) stationed at this installation. For each type unit, give the number assigned, its mission and primary equipment items (eg., radars, trucks, etc.).

Type of Unit	Number of Units	Mission	Equipment Items
None			

[1]Include only days when the air station operates at normal training levels (Do not include weekends and holidays if the training rate is at minimal levels).

[2]Include FY 1994 data through 31 March 1994.

Mission Requirements

D. Managed Training Areas

1. List the air-to-ground training ranges, outlying airfields, auxiliary airfields, special use airspace and areas for special use that are actively managed (scheduled or controlled) by the air station.

Managed Training Assets	Management Role
Waldron OLF	Controlled / Scheduled
Cabaniss OLF	Controlled / Scheduled
A632B/F	Scheduled
W228A/B/C/D	Scheduled/Controlled
Aransas County	Scheduled

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2. List other candidate installations (DoD and non-DoD) that could be considered for performing these management duties.

Asset	Installation	Reason for Consideration
W228	NAS Kingsville	Have already established radar approach facility in local area that could assume NASCORPC's role.
A632B/F	NAS Kingsville	Have already established radar approach facility in local area that could assume NASCORPC's role.
Waldron Field	NAS Kingsville	DON Aviation Command
Cabaniss Field	NAS Kingsville	DON Aviation Command

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Mission Requirements

E. General Military Support

1. Does this air station currently support any joint services (i.e. counter-narcotics) air operations? If so, explain.

Yes, U.S. Customs and U.S. Coast Guard deploy from this air station on counterdrug surveillance and intercept missions, additionally JTF6 Law Enforcement Detachments operate from NASCORPC.

(a) If applicable, give the type and number of aircraft based at your air station that conduct these operations and the total number of sorties flown during FY 1993 in support of these operations.

Aircraft Type	Number of Aircraft	# Sorties Flown in FY 1993
P3	8	1128
H-65	3	1242
HU-25	3	1020
JTF6 operates various fixed and rotary wing aircraft	Unknown	Unknown

(b) If applicable, list special equipment and facility (e.g., radar surveillance systems) at your air station that directly support these operations.

Equipment/Facility	Function/Range
ASR 8 Surveillance	60nm Primary 200nm Secondary

2. Does this air station have a role in national air defense or any other war or peace time defense plans? If so, explain. **In addition to page 13, question F. 1., the air station is covered under the "Open Skies" treaty. Under "SCATANA" a plan exists to deactivate NAVAIDS.**

Mission Requirements

E. General Military Support (cont.)

3. Does this air station directly support a military or civilian area control and surveillance mission (e.g., FACSFAC, FAA support)? If so, provide details.

a. **U.S. Coast Guard Group**
b. **U.S. Customs Service**
c. **Assistant Under the Secretary of the Navy for Special Projects**

4. Describe the role this air station plays in the Logistics Support and Mobilization Plan (LSMP).

CNATRA, as the Navy Regional Planning Agent for National Security Emergency Preparedness within an eight state area, has the responsibility for contingency plans supporting CINCLANTFLT and USCINC ACOM LSMP. Reserve personnel identified for mobilization in support of NASCORPC, TW4 AND CNATRA are listed on their manning documents under "Mobilization" M0,M+1,M+2.

5. List any other military support missions currently conducted at/from this air station (e.g., port of embarkation for MC personnel, other active duty/reserve personnel or logistics transfer missions).

NAS New Orleans Reserve Aircraft make bi-monthly personnel transfer missions to NASCORPC for weekend drill movements.

6. Are any new military missions planned for this air station?

Yes, Mine Warfare Center of Excellence, coordinating air and surface training and operations. Two HM squadrons are planned for 1997.

Mission Requirements
F. Other Support

1. Does the air station have a role in a disaster assistance plan, search and rescue, or local evacuation plan? If so, describe.

Yes, Navy and Coast Guard SAR for South Texas and Gulf of Mexico is conducted from NASCORPC. NASCORPC's SAR Helos provide SAR support for the entire South Texas training complex.
Base Disaster Assistance and Evacuation Plans are fully coordinated with city of Corpus Christi. Additionally, the Chief of Naval Air Training (CNATRA) is the Navy Regional Planning Agent (RPA) for an eight state area under CINCLANTFLT and USACOM. This is a Joint Forces Contingency Plans Program with classified missions.

- **References**
  - **Presidential Executive Order 12656**
  - **DODD 3025.1**
  - **OPNAVINST 3440.16**
  - **CINCLANTFLTINST 3440.1**
- **Geographic Area of Responsibility (8 states)**
  - **Texas, New Mexico, Oklahoma, Louisiana, Arkansas, Missouri, Kansas, Nebraska**
- **Contingency Plans**
  - **Joint Key Assets Protection Plans**
  - **Joint Strategic Capabilities Plan**
  - **Military Support to Civil Defense Plan**
  - **Military Support to Civil Authority Plan**
  - **Command, Control, Communication and Information**
  - **Military Mobilization Plan**
  - **Medical Mobilization Plan**
  - **Civil Disturbance Plan "Garden Plot"**
  - **Postal Augmentation Plan "Graphic Hand"**
  - **The Federal Emergency Plan**

2. Does the air station provide any direct meteorological support to local civilian, governmental or military agencies? If so, describe.
Yes, NAVTRAMETOC Det provides weather support to Training Air Wing FOUR, U.S. Coast Guard, Corpus Christi Army Depot, U.S. Customs, other tenant commands, Naval Station Ingleside and acts as subregional forecast center for Naval Air Stations Dallas and Kingsville during night and weekend hours.

3. Are any new civilian or other non-DOD missions planned for this air station? If so, describe. None known.

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Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: A-632B

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - Alert Area
b. Dimensions (nmi. x nmi. x ft) - 1350 sq nm, SFC - FL180
c. Distance from main airfield - Overlies main airfield
d. Time en route from main airfield - 5 minutes to established blocks
e. Controlling agency - None
f. Scheduling agency - TW-4
g. Are canned/stereo airways needed to access air space? - No
- If so, how many?
- If so, what types (i.e., IMC, VMC, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
R **j. Number of low level airways (below 18,000 ft) that bisect airspace - None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - None
l. Number of sorties flown in FY 1993
R **- By Navy - 22,921**
-By other services (including reserves and national guard) N/A
R **m. Percent of sorties cancelled due to weather. - 16.1 FY93 ***
n. Number of available hours in FY 1993 - 6205
o. Number of scheduled hours in FY 1993
- By Navy - 4,029
- By other services (including reserves and national guard) N/A
p. Number of hours used
- By Navy - 3,373
- By other services (including reserves and national guard) N/A
q. Types of training permitted - Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flights, maintenance flights, pilot proficiency and aerial refueling.

*** This figure represents all cancellations due to weather at NAS Corpus Christi and does not represent availability of A-632B.**

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Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: A-632B

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - Alert Area
b. Dimensions (nmi. x nmi. x ft) - 1350 sq nm, SFC - FL180
c. Distance from main airfield - Overlies main airfield
d. Time en route from main airfield - 5 minutes to established blocks
e. Controlling agency - None
f. Scheduling agency - TW-4
g. Are canned/stereo airways needed to access air space? - No
- If so, how many?
- If so, what types (i.e., IMC, VMC, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - 3
k. Number of high altitude airways (above 18,000 ft) that bisect airspace None
l. Number of sorties flown in FY 1993
- By Navy - 27,478
-By other services (including reserves and national guard) N/A
m. Percent of sorties cancelled due to weather. - 29.7 FY93 *
n. Number of available hours in FY 1993 - 6205
o. Number of scheduled hours in FY 1993
- By Navy - 4,029
- By other services (including reserves and national guard) N/A
p. Number of hours used
- By Navy - 3,373
- By other services (including reserves and national guard) N/A

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q. Types of training permitted - Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flights, maintenance flights, pilot proficiency and aerial refueling.

*** This figure represents all cancellations due to weather at NAS Corpus Christi and does not represent availability of A-632B.**

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Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: W-228

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **Warning Area**
b. Dimensions (nmi. x nmi. x ft) - **10875 sq nm, SFC - FL450**
c. Distance from main airfield - **10nm East**
d. Time en route from main airfield - **04 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **Naval Air Station, Corpus Christi, TX**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
- If so, how many? - **3**
- If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC, Altitude Block Reservation**
h. Is the airspace under radar coverage? - **Yes, only to 60nm from radar site**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **one**
l. Number of sorties flown in FY 1993 - **7,958, data is not broken down by service.**
- By Navy
- By other services (including reserves and national guard)
m. Percent of sorties cancelled due to weather. - **Not recorded**
R n. Number of available daylight hours in FY 1993 - **4,380**
o. Number of scheduled hours in FY 1993 - **4546, data is not broken down by service.**
- By Navy
- By other services (including reserves and national guard)
p. Number of hours used - **3,274, data is not broken down by service.**
- By Navy
- By other services (including reserves and national guard)
q. Types of training permitted - **Reconnaissance, Student pilot training, maritime training, tactical formation, air combat training, air-to-air gunnery, aerial refueling, surface/sub-surface ship operations.**

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Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: W-228

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **Warning Area**
b. Dimensions (nmi. x nmi. x ft) - **10875 sq nm, SFC - FL450**
c. Distance from main airfield - **10nm East**
d. Time en route from main airfield - **04 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **Naval Air Station, Corpus Christi, TX**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
- If so, how many? - **3**
- If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC, Altitude Block Reservation**
h. Is the airspace under radar coverage? - **Yes, only to 60nm from radar site**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **one**
l. Number of sorties flown in FY 1993 - **7,958, data is not broken down by service.**
- By Navy
- By other services (including reserves and national guard) [redacted]
m. Percent of sorties cancelled due to weather. - **Not recorded**
n. Number of available daylight hours in FY 1993 - **8,760**
o. Number of scheduled hours in FY 1993 - **4546, data is not broken down by service.**
- By Navy
- By other services (including reserves and national guard) [redacted]
p. Number of hours used - **3,274, data is not broken down by service.**
- By Navy
- By other services (including reserves and national guard)
q. Types of training permitted - **Reconnaissance, Student pilot training, maritime training, tactical formation, air combat training, air-to-air gunnery, aerial refueling, surface/sub-surface ship operations.**

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Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: A-632F

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **Alert Area**
b. Dimensions (nmi. x nmi. x ft) - **400 sq nm, 3000 - FL180**
c. Distance from main airfield - **25nm North**
d. Time en route from main airfield - **09 minutes**
e. Controlling agency - **None**
f. Scheduling agency - **TW-4**
g. Are canned/stereo airways needed to access air space? - **None**
   - If so, how many?
   - If so, what types (i.e., IMC, VMC, or altitude reservation)?
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **None**
l. Number of sorties flown in FY 1993 - **Data not recorded**
   - By Navy
   - By other services (including reserves and national guard) N/A
m. Percent of sorties cancelled due to weather. - **Data not recorded**
n. Number of available hours in FY 1993 - **5,304**
o. Number of scheduled hours in FY 1993
   - By Navy - **4,029**
   - By other services (including reserves and national guard) N/A
p. Number of hours used - **Data not recorded.**
   - By Navy - **4,029**
   - By other services (including reserves and national guard) N/A

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q. Types of training permitted - **Student familiarization, precision aerobatics, formation flight, basic instruments, radio instruments, night familiarization, pilot proficiency and aerial refueling.**

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Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: A-632D

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **Alert Area**
b. Dimensions (nmi. x nmi. x ft) - **1929 sq nm, 6000 - 11000**
c. Distance from main airfield - **45nm North**
d. Time en route from main airfield - **15 minutes**
e. Controlling agency - **None**
f. Scheduling agency - **TW-4**
g. Are canned/stereo airways needed to access air space? - **No**
- If so, how many? -
- If so, what types (i.e., IMC, VMC, or altitude reservation)? -
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **None**
l. Number of sorties flown in FY 1993 - **Data not recorded**
- By Navy
- By other services (including reserves and national guard)
m. Percent of sorties cancelled due to weather. - **Data not recorded**
n. Number of available hours in FY 1993 - **4940**
o. Number of scheduled hours in FY 1993 - **Due to low TW4 utilization, area is not advance scheduled by TW-4.**
- By Navy
- By other services (including reserves and national guard)
p. Number of hours used - **Data not recorded**
- By Navy
- By other services (including reserves and national guard)
q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, night familiarization, indoctrination flight, pilot proficiency and aerial refueling.**

00216 28Apr94

Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: A-632C

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **Alert Area**
b. Dimensions (nmi. x nmi. x ft) - **500 sq nm, SFC - FL180**
c. Distance from main airfield - **40nm West**
d. Time en route from main airfield - **13 minutes**
e. Controlling agency - **None**
f. Scheduling agency - **TW-2**
g. Are canned/stereo airways needed to access air space? - **No**
- If so, how many?
- If so, what types (i.e., IMC, VMC, or altitude reservation)?
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **None**
l. Number of sorties flown in FY 1993 - **Data not recorded**
- By Navy
- By other services (including reserves and national guard)
m. Percent of sorties cancelled due to weather. - **Data not recorded**
n. Number of available hours in FY 1993 - **4420**
o. Number of scheduled hours in FY 1993 - **Due to low TW4 utilization, area is not advance scheduled by TW-4.**
- By Navy
- By other services (including reserves and national guard)
p. Number of hours used - **Data not recorded**
- By Navy
- By other services (including reserves and national guard)
q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency and aerial refueling.**

R

00216 31Aug94

Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: KINGSVILLE 1/MOA/ATCAA

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **MOA**
b. Dimensions (nmi. x nmi. x ft) - **2100 sq nm, 8000 - FL350**
c. Distance from main airfield - **35nm West**
d. Time en route from main airfield - **13 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **TW-2**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
   - If so, how many? - **10**
   - If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC**
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **1**
l. Number of sorties flown in FY 1993
R - By Navy - **3043**
   - By other services (including reserves and national guard) ∅ 2 CNATRA N3 12 Sept 94
m. Percent of sorties cancelled due to weather. - **Data not recorded**
R n. Number of available hours in FY 1993 - **5788**
o. Number of scheduled hours in FY 1993
   - By Navy - **2948**
   - By other services (including reserves and national guard) ∅ 2 CNATRA N3 12 Sept 94
p. Number of hours used
   - By Navy - **2948**
   - By other services (including reserves and national guard) ∅ 2 CNATRA N3 12 Sept 94
q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency and aerial refueling.**

00216 28Apr94

Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: KINGSVILLE 1/MOA/ATCAA

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **MOA**
b. Dimensions (nmi. x nmi. x ft) - **2100 sq nm, 8000 - FL350**
c. Distance from main airfield - **35nm West**
d. Time en route from main airfield - **13 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **TW-2**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
   - If so, how many? - **10**
   - If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC**
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **1**
l. Number of sorties flown in FY 1993
   - By Navy - **12171**
   - By other services (including reserves and national guard) UNK
m. Percent of sorties cancelled due to weather. - **Data not recorded**
n. Number of available hours in FY 1993 - **4680**
o. Number of scheduled hours in FY 1993
   - By Navy - **2948**
   - By other services (including reserves and national guard) UNK
p. Number of hours used
   - By Navy - **2948**
   - By other services (including reserves and national guard) UNK

SH CNET N46331

q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency and aerial refueling.**

R

00216 31Aug94

Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: KINGSVILLE 2/MOA/ATCAA

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **MOA**
b. Dimensions (nmi. x nmi. x ft) - **437 sq nm, 13000 - FL350**
c. Distance from main airfield - **25nm West**
d. Time en route from main airfield - **9 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **TW-2**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
   - If so, how many? - **1**
   - If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC**
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **1**
l. Number of sorties flown in FY 1993
R - By Navy - **3043**
   - By other services (including reserves and national guard) Ø ~~2~~ CONTROL NO 12 Sept 94
m. Percent of sorties cancelled due to weather. - **Data not recorded**
R n. Number of available hours in FY 1993 - **5788**
o. Number of scheduled hours in FY 1993
   - By Navy - **2948**
   - By other services (including reserves and national guard) Ø ~~2~~ CONTROL NO 12 Sept 94
p. Number of hours used
   - By Navy - **2948**
   - By other services (including reserves and national guard) Ø ~~2~~ CONTROL NO 12 Sept 94
q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency, aerial refueling and air combat training.**

00216 28Apr94

Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: KINGSVILLE 2/MOA/ATCAA

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **MOA**
b. Dimensions (nmi. x nmi. x ft) - **2100 sq nm, 13000 - FL350**
c. Distance from main airfield - **25nm West**
d. Time en route from main airfield - **9 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **TW-2**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
   - If so, how many? - **1**
   - If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC**
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **1**
l. Number of sorties flown in FY 1993
   - By Navy - **12171**
   - By other services (including reserves and national guard) UNK
m. Percent of sorties cancelled due to weather. - **Data not recorded**
n. Number of available hours in FY 1993 - **4680**
o. Number of scheduled hours in FY 1993
   - By Navy - **2948**
   - By other services (including reserves and national guard) UNK
p. Number of hours used
   - By Navy - **2948**
   - By other services (including reserves and national guard) UNK

818 CNET N44331

q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency, aerial refueling and air combat training.**

00216 28Apr94

Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: CHASE 1/MOA/ATCAA

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **MOA**
b. Dimensions (nmi. x nmi. x ft) - **2174 sq nm , 11000 - FL350**
c. Distance from main airfield - **30nm North**
d. Time en route from main airfield - **10 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **TW-2**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
   - If so, how many? - **2**
   - If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC**
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **None**
l. Number of sorties flown in FY 1993
   - By Navy - **120**
   - By other services (including reserves and national guard) UNK
m. Percent of sorties cancelled due to weather. - **Data not recorded**
n. Number of available hours in FY 1993 - **4940**
o. Number of scheduled hours in FY 1993
   - By Navy - **238**
   - By other services (including reserves and national guard) UNK
p. Number of hours used
   - By Navy - **238**
   - By other services (including reserves and national guard) UNK

SA CNET N44331

q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency, aerial refueling and air combat training.**

R

00216 31Aug94

Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: CHASE 2/MOA/ATCAA

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **MOA**
R b. Dimensions (nmi. x nmi. x ft) - **912 sq nm, 9000 - FL350**
c. Distance from main airfield - **70nm North**
d. Time en route from main airfield - **23 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **TW-2**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
- If so, how many? - **1**
- If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC**
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **None**
l. Number of sorties flown in FY 1993
- By Navy - **120**
- By other services (including reserves and national guard) not available — 2 (number 3) 12 Sept 94
m. Percent of sorties cancelled due to weather. - **Data not recorded**
n. Number of available hours in FY 1993 - **4940**
o. Number of scheduled hours in FY 1993
- By Navy - **238**
- By other services (including reserves and national guard) not available — 2 (number 3) 12 Sept 94
p. Number of hours used
- By Navy - **238**
- By other services (including reserves and national guard) not available — 2 (number 23) 12 Sept 94
q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency, aerial refueling and air combat training.**

00216 28Apr94

Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: CHASE 2/MOA/ATCAA

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MOA
b. Dimensions (nmi. x nmi. x ft) - 551 sq nm, 9000 - FL350
c. Distance from main airfield - 70nm North
d. Time en route from main airfield - 23 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - TW-2
g. Are canned/stereo airways needed to access air space? - Used routinely but not required.
- If so, how many? - 1
- If so, what types (i.e., IMC, VMC, or altitude reservation)? - IMC
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - None
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - None
l. Number of sorties flown in FY 1993
- By Navy - 120
- By other services (including reserves and national guard) UNK
m. Percent of sorties cancelled due to weather. - Data not recorded
n. Number of available hours in FY 1993 - 4940
o. Number of scheduled hours in FY 1993
- By Navy - 238
- By other services (including reserves and national guard) UNK
p. Number of hours used
- By Navy - 238
- By other services (including reserves and national guard) UNK

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q. Types of training permitted - Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency, aerial refueling and air combat training.

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Facilities

A. Air Space and Flight Training Areas

1. List all SUA and airspace for special use within 100 nmi. of your air station. For each piece of airspace, provide the following data:

Airspace Designator: CHASE 3/MOA/ATCAA

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - **MOA**
b. Dimensions (nmi. x nmi. x ft) - **2775 sq nm, 8000 - FL350**
c. Distance from main airfield - **46nm North**
d. Time en route from main airfield - **15 minutes**
e. Controlling agency - **Houston Center**
f. Scheduling agency - **TW-2**
g. Are canned/stereo airways needed to access air space? - **Used routinely but not required.**
   - If so, how many? - **2**
   - If so, what types (i.e., IMC, VMC, or altitude reservation)? - **IMC**
h. Is the airspace under radar coverage? - **Yes**
i. Is the airspace under communications coverage? - **Yes**
j. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - **None**
l. Number of sorties flown in FY 1993
   - By Navy - **300**
   - By other services (including reserves and national guard) UNK
m. Percent of sorties cancelled due to weather. - **Data not recorded**
n. Number of available hours in FY 1993 - **4940**
o. Number of scheduled hours in FY 1993
   - By Navy - **997**
   - By other services (including reserves and national guard) UNK
p. Number of hours used
   - By Navy - **997**
   - By other services (including reserves and national guard) UNK

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q. Types of training permitted - **Student familiarization, formation flight, precision aerobatics, basic instruments, radio instruments, night familiarization, indoctrination flight, pilot proficiency, aerial refueling and air combat training.**

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FACILITIES (CONT.)

A. AIR SPACE AND FLIGHT TRAINING AREAS (CONT.)

1. List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: VR 168

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) - ~~5 NM SFC-2000'~~ Variable
c. Distance from main airfield - 85nm
d. Time en route from main airfield - 28 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
   - If so, how many?
   - If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - 7 VR Routes
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - None
l. Number of sorties flown in FY 1993
   - By Navy - 19
   - By other services (including reserves and national guard) - 17
m. Percent of sorties cancelled due to weather - Data not recorded
n. Number of available hours in FY 1993 - 6570
o. Number of scheduled hours in FY 1993
   - By Navy - 21.4
   - By other services (including reserves and national guard)- 7.1
p. Number of hours used
   - By Navy - 21.4
   - By other services (including reserves and national guard)- 7.1
q. Types of training permitted - Navigational training

CNATRA N3 (VELEZ)
8-4-94

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FACILITIES (CONT.)

A. AIR SPACE AND FLIGHT TRAINING AREAS (CONT.)

1. ~~14.~~ List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: VR 151

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) - ~~5 NM SFC-2000'~~ Variable
c. Distance from main airfield - 100nm
d. Time en route from main airfield - 33 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
   - If so, how many?
   - If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - None
k. Number of high altitude airways (above 18,000 ft) that bisect airspace- None
l. Number of sorties flown in FY 1993
   - By Navy - 52
   - By other services (including reserves and national guard)- 37
m. Percent of sorties cancelled due to weather - Data not recorded
n. Number of available hours in FY 1993 - 5840
o. Number of scheduled hours in FY 1993
   - By Navy - 15.3
   - By other services (including reserves and national guard)- 12.7
p. Number of hours used
   - By Navy - 15.3
   - By other services (including reserves and national guard)- 12.7
q. Types of training permitted - Navigational Training

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Facilities (cont.)

A. Air Space and Flight Training Areas (cont.)

1. List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: IR 167

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) - 5 NM SFC-2000'
c. Distance from main airfield - 85nm
d. Time en route from main airfield - 28 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
- If so, how many?
- If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - 2 IR Routes
k. Number of high altitude airways (above 18,000 ft) that bisect airspace- None
l. Number of sorties flown in FY 1993
- By Navy - 13
- By other services (including reserves and national guard) - 0
m. Percent of sorties cancelled due to weather - Data not recorded
n. Number of available hours in FY 1993 - 6570
o. Number of scheduled hours
- By Navy - 19.5
- By other services (including reserves and national guard) - 0
p. Number of hours used -
- By Navy - 19.5
- By other services (including reserves and national guard) - 0
q. Types of training permitted - Navigational Training

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Facilities (cont.)

A. Air Space and Flight Training Areas (cont.)

1. List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: IR 166

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) - ~~5 NM SFC-2000'~~ variable
c. Distance from main airfield - 48nm
d. Time en route from main airfield - 16 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
- If so, how many?
- If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - 3 IR Routes
k. Number of high altitude airways (above 18,000 ft) that bisect airspace- None
l. Number of sorties in FY 1993
- By Navy - 2
- By other services (including reserves and national guard) - 12
m. Percent of sorties cancelled due to weather - Data not recorded
n. Number of available hours in FY 1993 - 6570
o. Number of scheduled hours
- By Navy - 4.7
- By other services (including reserves and national guard) - 4.25
p. Number of hours used
- By Navy - 4.7
- By other services (including reserves and national guard) - 4.25
q. Types of training permitted - Navigational Training

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CNATRA-N3
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FACILITIES (CONT.)

A. AIR SPACE AND FLIGHT TRAINING AREAS (CONT.)

1. ~~10.~~ List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: IR 149

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) - ~~5 NM SFC-3000'~~ Variable
c. Distance from main airfield - 57nm
d. Time en route from main airfield - 19 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
- If so, how many?
- If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - ~~6~~ 5 VR Routes - 1 IR
k. Number of high altitude airways (above 18,000 ft) that bisect airspace- None
l. Number of sorties flown in FY 1993
- By Navy - 2
- By other services (including reserves and national guard) - 10
m. Percent of sorties cancelled due to weather 1993 - Data not recorded
n. Number of available hours in FY 1993 - 6023
o. Number of scheduled hours in FY 1993
- By Navy - 2
- By other services (including reserves and national guard)- 9.7
p. Number of hours used
- By Navy - 2
- By other services (including reserves and national guard)- 4.3
q. Types of training permitted - Navigational Training

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FACILITIES (CONT.)

A. AIR SPACE AND FLIGHT TRAINING AREAS (CONT.)

1. List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: IR 148

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) - ~~3 NM - 500' - 2000'~~ Variable
c. Distance from main airfield - 100nm
d. Time en route from main airfield - 33 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
   - If so, how many?
   - If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - 2 VR Routes
k. Number of high altitude airways (above 18,000 ft) that bisect airspace- None
l. Number of sorties flown in FY 1993
   - By Navy - 46
   - By other services (including reserves and national guard) - 130
m. Percent of sorties cancelled due to weather - Data not recorded
n. Nmber of scheduled hours in FY 1993 - 6023
o. Number of scheduled hours
   - By Navy - 46.3
   - By other services (including reserves and national guard) - 129.5
p. Number of hours used
   - By Navy - 54.3
   - By other services (including reserves and national guard) - 83.4
q. Types of training permitted - Navigational Training

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FACILITIES (CONT.)

A. AIR SPACE AND FLIGHT TRAINING AREAS (CONT.)

1. [redacted] List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: IR 147

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) - ~~4 NM 3000'- 9000'~~ Variable
c. Distance from main airfield - 72nm
d. Time en route from main airfield - 24 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
   - If so, how many?
   - If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - 2 IR/ 1 VR Routes
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - None
l. Number of sorties flown in FY 1993
   - By Navy - 0
   - By other services including reserves and national guard) - 2
m. Percent of sorties cancelled due to weather - Data not recorded
n. Number of available hours in FY 1993 - 4562.5
o. Number of hours used
   - By Navy - 0
   - By other services (including reserves and national guard) - 2
p. Number of hours used
   - By Navy - 0
   - By other services (including reserves and national guard) - 2.3
q. Types of training permitted - Road Recon

CHANGE N3 8-4-94

Reverse page

00216 29Jul94

FACILITIES (CONT.)

A. AIR SPACE AND FLIGHT TRAINING AREAS (CONT.)

1. 10. List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: IR 136

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) - ~~5 NM SFC-2000'~~ variable
c. Distance from main airfield - 60nm
d. Time en route from main airfield - 20 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
   - If so, how many?
   - If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - 6 VR Routes
k. Number of high altitude airways (above 18,000 ft) that bisect airspace - None
l. Number of sorties flown in FY 1993
   - By Navy - 5
   - By other services including reserves and national guard) - 4
m. Percent of sorties cancelled due to weather - Data not recorded
n. Number of available hours in FY 1993 - 4380
o. Number of scheduled hours in FY 1993
   - By Navy - 4.6
   - By other services (including reserves and national guard) - 4
p. Number of hours used
   - By Navy - 4.9
   - By other services (including reserves and national guard) - 3.3
q. Types of training permitted - Navigational Training

CONTRAILS 8-4-94

Remove page

00216 29Jul94

FACILITIES (CONT.)

A. AIR SPACE AND FLIGHT TRAINING AREAS (CONT.)

1. ~~104~~ List all areas for special use within 100 nmi. of your installation. For each piece of airspace, provide the following data:

AIRSPACE DESIGNATOR: IR 135

a. Type of airspace (i.e., warning area, MOA, alert area, restricted area, or MTR) - MTR
b. Dimensions (nmi. x nmi. x ft) ~~8 NM 3000' - 9000'~~ Varied
c. Distance from main airfield - 42nm
d. Time en route from main airfield - 14 minutes
e. Controlling agency - Houston Center
f. Scheduling agency - NAS Kingsville, TW-2
g. Are canned/stereo airways needed to access air space? - No
- If so, how many?
- If so, what types (i.e., IFR, VFR, or altitude reservation)?
h. Is the airspace under radar coverage? - Yes
i. Is the airspace under communications coverage? - Yes
j. Number of low level airways (below 18,000 ft) that bisect airspace - 3 IR Routes
k. Number of high altitude airways (above 18,000 ft) that bisect airspace- None
l. Number of sorties flown in FY 1993
- By Navy - 273
- By other services including reserves and national guard) - 1
m. Percent of sorties cancelled due to weather - Data not recorded
n. Number of available hours in FY 1993 - 4380
o. Number of scheduled hours in FY 1993
- By Navy - 272.5
- By other services (including reserves and national guard) - 5
p. Number of hours used
- By Navy - 255.3
- By other services (including reserves and national guard) - 1.2
q. Types of training permitted - Road Recon and Simulated Attacks

CANCELLED 8-4-94

R

00216 31Aug94

Facilities

A. Air Space and Flight Training Areas (cont)

2. List all the air-to-ground training ranges within 100 nmi. of your air station. For each range, provide the following data:
Range Name: R-6312 (McMullen TGT Complex)

a. Location (city/county and state) - **Cotulla, Texas**
b. Distance from main airfield - **60 nm**
c. Time en route from main airfield - **20 minutes**
d. Controlling agency - **FAA, ARTCC, Houston TX**
e. Scheduling agency - **NAS Kingsville, TX**
f. Are canned/stereo airways needed to access air space? - **Routinely used but not required.**
   - If so, how many? - **2**
   - If so, what types (i.e., IFR, VFR, or altitude reservation)? - **IFR and VFR**
g. Is the airspace under radar coverage? - **Yes**
h. Is the airspace under communications coverage? - **Yes**
i. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
j. Number of high altitude airways (above 18,000 ft) that bisect airspace - **None**
k. Number of sorties flown in FY 1993 - **1393**
   - By Navy - **266**
   - By other services (including reserves and national guard) - **1127**
l. Percent of sorties cancelled due to weather. - **8%**
R m. Number of available hours in FY 1993 - **4380**
n. Number of scheduled hours in FY 1993 - **478.25**
   - By Navy - **164**
   - By other services (including reserves and national guard) - **314.25**
o. Number of hours used - **223.25**
   - By Navy - **42**
   - By other services (including reserves and national guard) - **181.25**
p. Types of training permitted - **Bombing\strafing**

NOTE: All totals are based on data from January to September 93, area formerly scheduled by NAS CHASE and data is no longer available.

3. Describe the major air traffic structure (routes, terminal control areas, approach, etc.) within 50 NM of each air-to-ground range, airspace, and airfield. (Provide annotated diagram if appropriate) **See attached diagrams**

4. Are air station operations currently affected by the major air traffic structures within 50 NM of each air-to-ground range, airspace, and airfield? If so, describe the effect. **No**

00216 28Apr94

Facilities

A. Air Space and Flight Training Areas (cont)

2. List all the air-to-ground training ranges within 100 nmi. of your air station. For each range, provide the following data:
Range Name: R-6312 (McMullen TGT Complex)

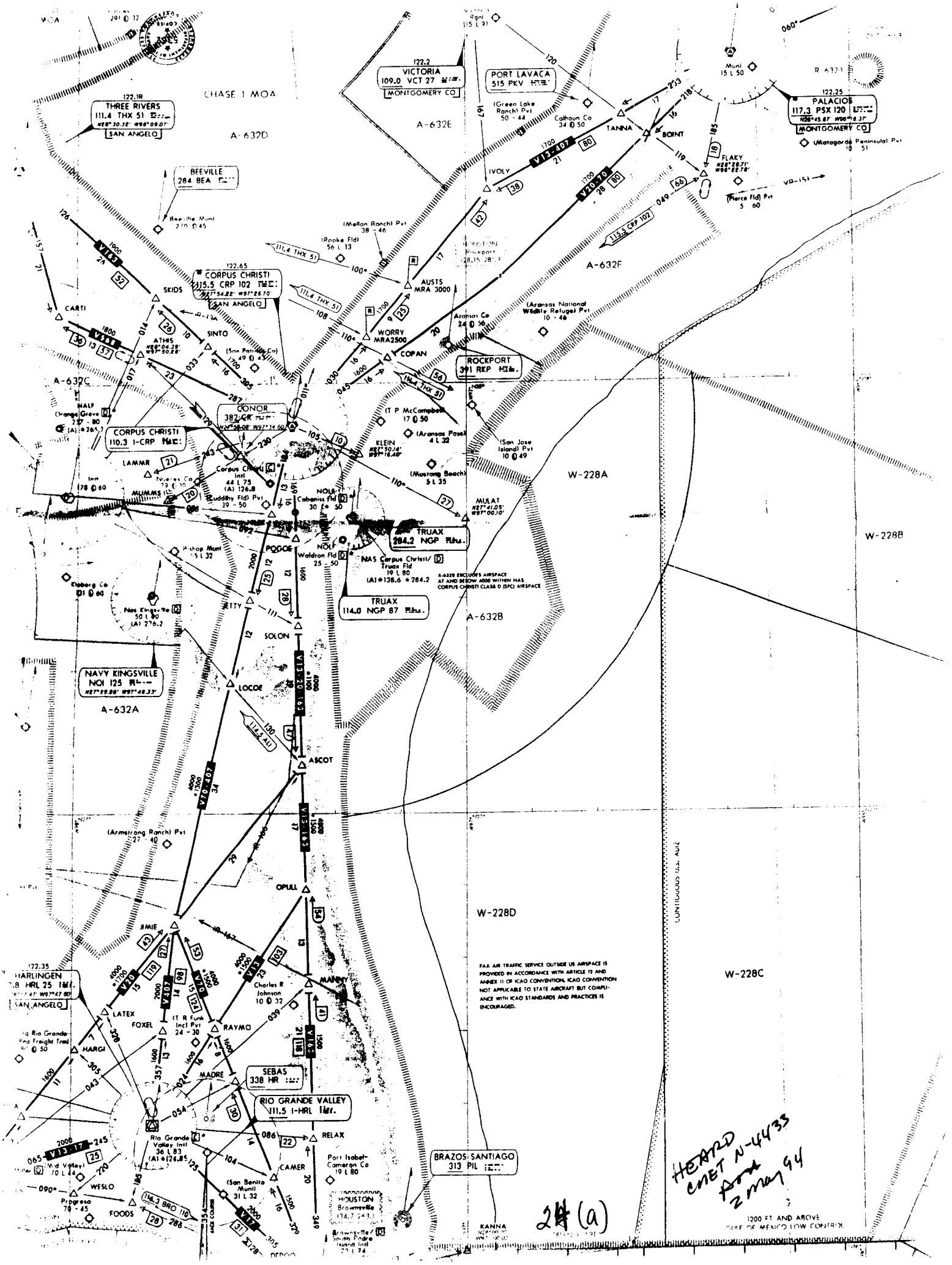
a. Location (city/county and state) - **Cotulla, Texas**
b. Distance from main airfield - **60 nm**
c. Time en route from main airfield - **20 minutes**
d. Controlling agency - **FAA, ARTCC, Houston TX**
e. Scheduling agency - **NAS Kingsville, TX**
f. Are canned/stereo airways needed to access air space? - **Routinely used but not required.**
   - If so, how many? - **2**
   - If so, what types (i.e., IFR, VFR, or altitude reservation)? - **IFR and VFR**
g. Is the airspace under radar coverage? - **Yes**
h. Is the airspace under communications coverage? - **Yes**
i. Number of low level airways (below 18,000 ft) that bisect airspace - **None**
j. Number of high altitude airways (above 18,000 ft) that bisect airspace - **None**
k. Number of sorties flown in FY 1993 - **1393**
   - By Navy - **266**
   - By other services (including reserves and national guard) - **1127**
l. Percent of sorties cancelled due to weather. - **8%**
m. Number of available hours in FY 1993 - **6352**
n. Number of scheduled hours in FY 1993 - **478.25**
   - By Navy - **164**
   - By other services (including reserves and national guard) - **314.25**
o. Number of hours used - **223.25**
   - By Navy - **42**
   - By other services (including reserves and national guard) - **181.25**
p. Types of training permitted - **Bombing\strafing**

SH (HERTEL) CNET N44331 Pete Phillips CNATRA

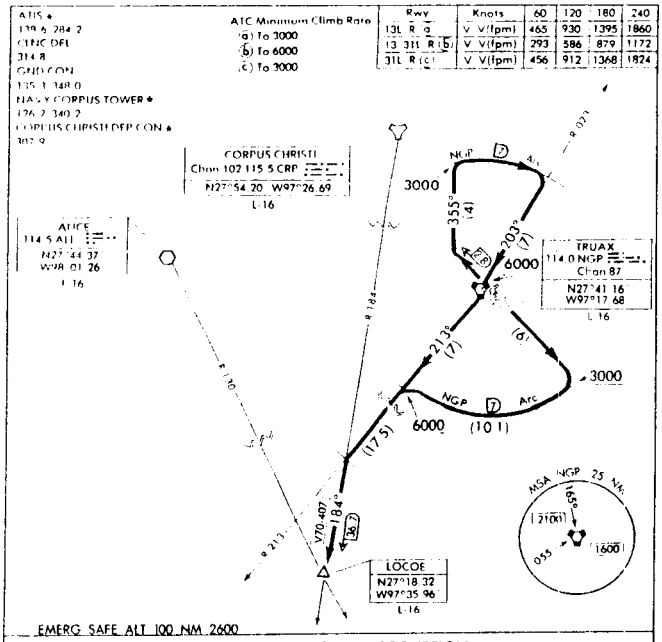
NOTE: All totals are based on data from January to September 93, area formerly scheduled by NAS CHASE and data is no longer available.

3. Describe the major air traffic structure (routes, terminal control areas, approach, etc.) within 50 NM of each air-to-ground range, airspace, and airfield. (Provide annotated diagram if appropriate) **See attached diagrams**

4. Are air station operations currently affected by the major air traffic structures within 50 NM of each air-to-ground range, airspace, and airfield? If so, describe the effect. **No**


CHASE 1 MOA
A-632D
A-632E
A-632F
A-632C
A-632B
A-632A
W-228A
W-228B
W-228C
W-228D
THREE RIVERS
111.4 THX 51
SAN ANGELO
VICTORIA
109.0 VCT 27
MONTGOMERY CO
PORT LAVACA
515 PKV
PALACIOS
117.3 PSX 120
MONTGOMERY CO
BEEVILLE
284 BEA
CORPUS CHRISTI
115.5 CRP 102
SAN ANGELO
ROCKPORT
391 RKP
CORPUS CHRISTI
110.3 I-CRP
TRUAX
284.2 NGP
TRUAX
114.0 NGP 87
NAVY KINGSVILLE
NOI 125
HARLINGEN
HRL 25
SAN ANGELO
RIO GRANDE VALLEY
111.5 I-HRL
SEBAS
338 HR
BRAZOS-SANTIAGO
313 PIL
A-632B EXCLUDES AIRSPACE AT AND BELOW 4000 WITHIN NAS CORPUS CHRISTI CLASS D (SFC) AIRSPACE
FAA AIR TRAFFIC SERVICE OUTSIDE US AIRSPACE IS PROVIDED IN ACCORDANCE WITH ARTICLE 12 AND ANNEX 11 OF ICAO CONVENTION. ICAO CONVENTION NOT APPLICABLE TO STATE AIRCRAFT BUT COMPLIANCE WITH ICAO STANDARDS AND PRACTICES IS ENCOURAGED.
1200 FT AND ABOVE
GULF OF MEXICO LOW CONTROL
HEARD
CNET N-4433
2 May 94
24(a)

RANGER-FOUR DEPARTURE



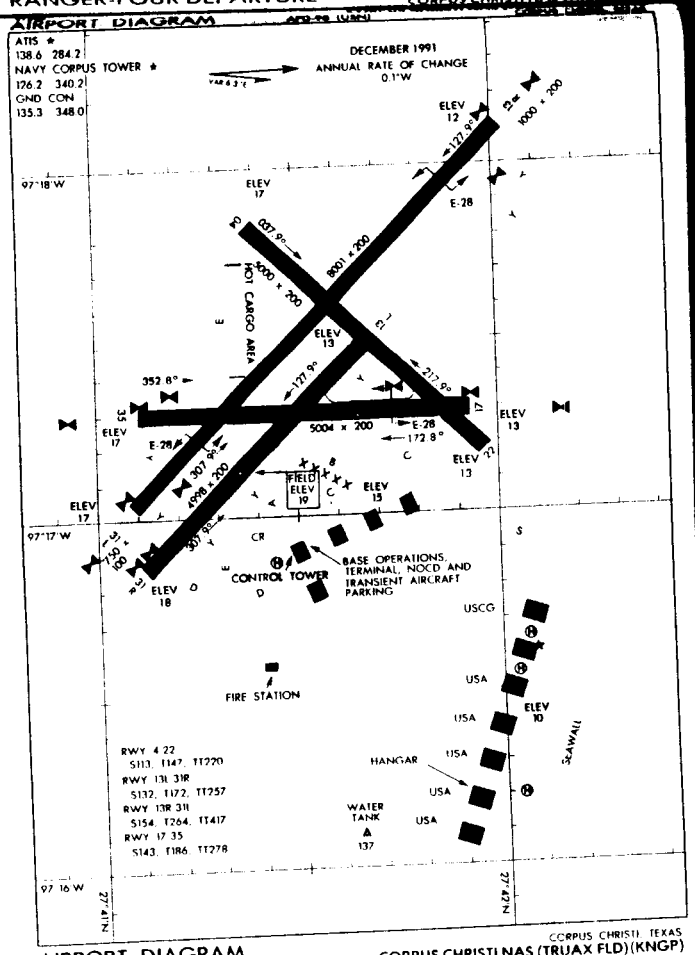
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13L/R: Fly runway heading to join and arc S on the 7 mile arc to join and fly NGP R-213 to join and fly CRP R-184 to LOCOE (ALI R-130/CRP R-184/36.7 DME). Join 7 mile arc at 3000 minimum, join NGP R-213 at 6000 minimum.

TAKE-OFF RWY 31L/R: Fly runway heading to the 2.8 DME, turn right heading 355° to join and arc N on the 7 mile arc to join and fly NGP R-023 to NGP. NGP R-213 to join and fly CRP R-184 to LOCOE. Join 7 mile arc at 3000 minimum, cross NGP at 6000 minimum.

RANGER-FOUR DEPARTURE
CORPUS CHRISTI NAS (TRUAX FLD)

AIRPORT DIAGRAM



CORPUS CHRISTI, TEXAS

AIRPORT DIAGRAM

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

24 (b)

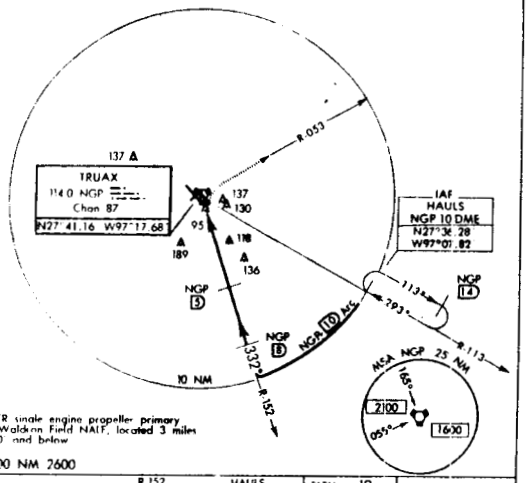
VOR/DME or TACAN RWY 35

92205

100 CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)

AL 98.09 (USN) CORPUS CHRISTI, TEXAS

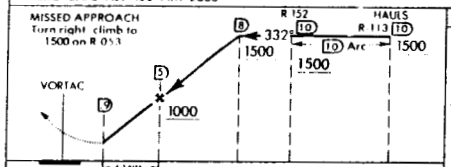
ATIS *
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER *
126.2 340.2
GND CON
135.3 348.0
ASR/PAR



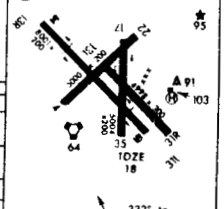
CAUTION: Extensive VFR single engine propeller primary training operations at Waldron Field NALF, located 3 miles South of NAS at 3000' and below

EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn right climb to 1500 on R 053



ELEV 19



REIL Rwy 13R-31L
HIRL all Rwys

332° to VORTAC

CATEGORY	A	B	C	D
S 35	380 1 362 (400 1)			380 1¼ 362 (400 1¼)
CIRCLING	440 1 421 (500 1)	480 1 461 (500 1)	480 1½ 461 (500 1½)	580 2 561 (600 2)
S PAR 35	118 ½ 100 (100 ½) GS 3.0°			

VOR/DME or TACAN RWY 35

27°42'N97°17'W

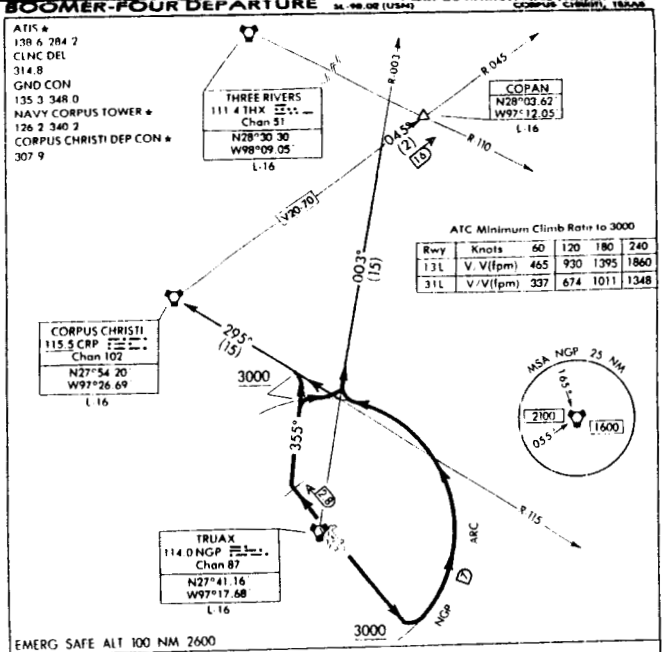
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)

CORPUS CHRISTI, TEXAS

BOOMER-FOUR DEPARTURE

AL 98.09 (USN)

ATIS *
138.6 284.2
CLNC DEL
314.8
GND CON
135.3 348.0
NAVY CORPUS TOWER *
126.2 340.2
CORPUS CHRISTI DEP CON *
307.9



ATC Minimum Climb Rate to 3000

Rwy	Knots	60	120	180	240
13L	V/V(fpm)	465	930	1395	1860
31L	V/V(fpm)	337	674	1011	1348

EMERG SAFE ALT 100 NM 2600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13L R: Fly runway heading to join and arc E on the 7 mile arc to the _____ Transition. Join the 7 mile arc at 3000 minimum.

TAKE-OFF RWY 31L R: Fly runway heading to the 2.8 DME, turn right heading 355° to the _____ Transition. Join 7 mile arc or CRP R-115 at 3000 minimum.

COPAN TRANSITION: Arc N on the 7 mile arc to the NGP R-003 to CRP R-045 to COPAN.

CORPUS CHRISTI TRANSITION: Fly CRP R-115 to CRP.

24 (C)

BOOMER-FOUR DEPARTURE

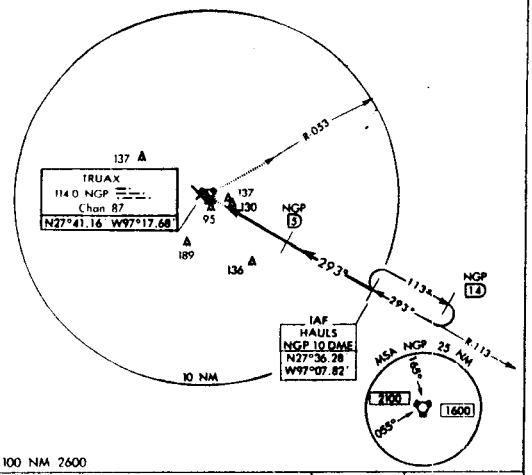
CORPUS CHRISTI, TEXAS

CORPUS CHRISTI NAS (TRUAX FLD)

VOR/DME 1 or TACAN 1 RWY 31L

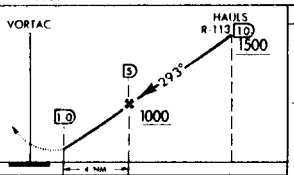
92261

ATIS ★
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER ★
126.2 340.2
GND CON
135.3 348.0
ASR/PAR

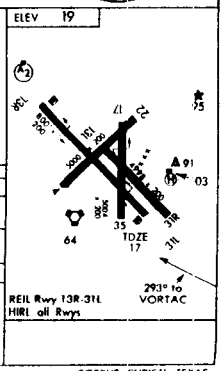


EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn right, climb to 1500 on R-053



ELEV 19



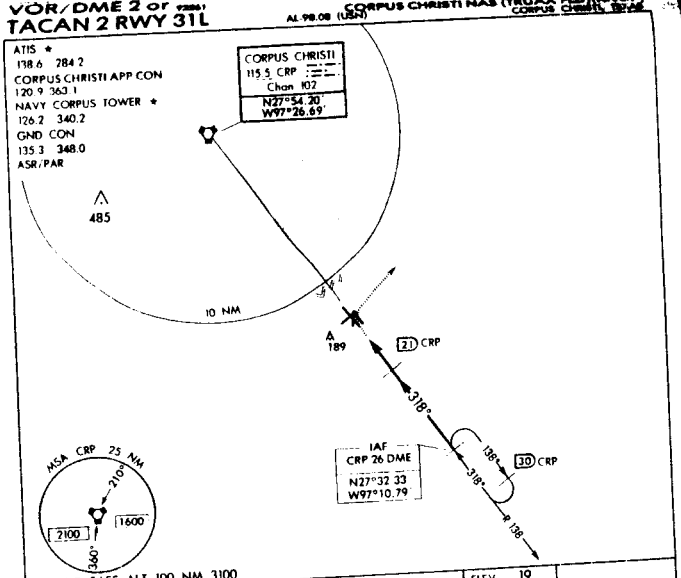
REIL Rwy 13R-31L
HIRL all Rwys

CATEGORY	A	B	C	D
S-31L	380-1 363 (400-1)			380-1¼ 363 (400-1¼)
CIRCLING	440-1 421 (500-1)	480-1 461 (500-1)	480-1½ 461 (500-1½)	580-2 561 (600-2)
S-PAR 31L	117-½ 100 (100-½) GS 3.0°			

VOR/DME 1 or TACAN 1 RWY 31L
VOR/DME 2 or TACAN 2 RWY 31L

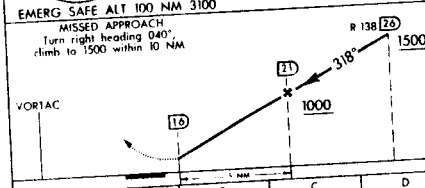
92261

ATIS ★
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER ★
126.2 340.2
GND CON
135.3 348.0
ASR/PAR

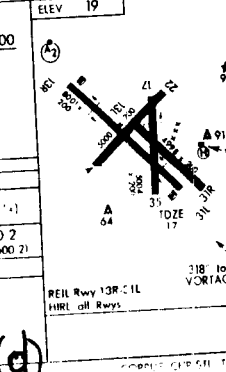


EMERG SAFE ALT 100 NM 3100

MISSED APPROACH
Turn right heading 040°, climb to 1500 within 10 NM



ELEV 19



REIL Rwy 13R-31L
HIRL all Rwys

CATEGORY	A	B	C	D
S-31L	440-1 423 (500-1)		440-1¼ 423 (500-1¼)	
CIRCLING	440-1 421 (500-1)	480-1 461 (500-1)	480-1½ 461 (500-1½)	580-2 561 (600-2)
S-PAR 31L	117-½ 100 (100-½) GS 3.0°			

24(d)

VOR/DME 2 or TACAN 2 RWY 31L

5362

VOR/DME or TACAN 2 RWY 13R

93343 96 CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
AL 98.05 (USN) CORPUS CHRISTI, TEXAS

ATIS *
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER *
126.2 340.2
GND CON
135.3 348.0
ASR/PAR

CORPUS CHRISTI
115.5 CRP
Chan 102
N27°54.20
W97°26.69

IAF
KLEIN
CRP 10 DME
N27°50.22'
W97°16.65

10 NM

MSA CRP 25 NM

EMERG SAFE ALT 100 NM 3100

MISSED APPROACH
Climb to 1500 on R-139.

ELEV 19

139° 14 NM From VORTAC

TDZE 14

CATEGORY	A	B	C	D
S 13R *	380-¾ 366 (400-¾)			380-1 366 (400-1)
CIRCLING	440-1 421 (500-1)	480-1 461 (500-1)	480-1½ 461 (500-1½)	580-2 561 (600-2)
S PAR 13R *	114/16	100	(100-¼)	GS 3.0°

*When ALS inop, increase vis ¼ mile.

REIL Rwy 13R-31L
HIRL all Rwys

VOR/DME or TACAN RWY 17

ATIS *
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER *
126.2 340.2
GND CON
135.3 348.0
ASR/PAR

IAF
RYNOL
NGP 10 DME
N27°48.[illegible]
W97°[illegible]

TRUAX
114.0 NGP
Chan 87
N27°41.16'
W97°17.68'

10 NM

MSA NGP 25 NM

EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn left, climb to 1500 on R-083

ELEV 19

186° to VORTAC

TDZE 18

CATEGORY	A	B	C	D
S 17	360-1 342 (400-1)			360-1¼ 342 (400-1¼)
CIRCLING	440-1 421 (500-1)	480-1 461 (500-1)	480-1½ 461 (500-1½)	580-2 561 (600-2)
S PAR 17	118 ½	100	(100 ½)	GS 3.0°

REIL Rwy 13R-31L
HIRL all Rwys

24 (e)

CORPUS CHRISTI, TEXAS
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)

VOR/DME or TACAN RWY 17

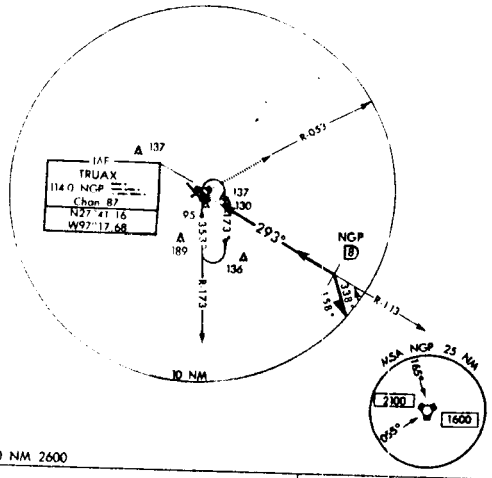
97

VOR or 92261
VOR/DME 3 RWY 31L

94 AL 98 03 (USN)

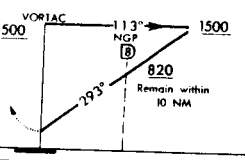
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
CORPUS CHRISTI, TEXAS

ATIS ★
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER ★
126.2 340.2
GND CON
135.3 348.0
ASR/PAR

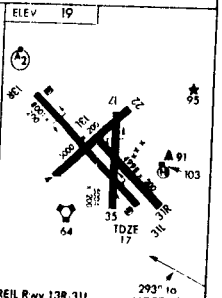


EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn right climb to 1500 on R-053.



ELEV 19



CATEGORY	A	B	C	D
S-31L	820-1 803 (900-1)	820-1¼ 803 (900-1¼)	820-2¼ 803 (900-2¼)	820-2½ 803 (900-2½)
CIRCLING	820-1 801 (900-1)	820-1¼ 801 (900-1¼)	820-2¼ 801 (900-2¼)	820-2½ 801 (900-2½)

*VOR DME Minima

S-31L*	400-1 383 (400-1)			400-1¼ 383 (400-1¼)
CIRCLING*	440-1 421 (500-1)	480-1 461 (500-1)	480-1½ 461 (500-1½)	580-2 561 (600-2)
S-PAR 31L	117-½	100	(100-½)	GS 3.0°

REIL Rwy 13R 31L
HIRL all Rwys

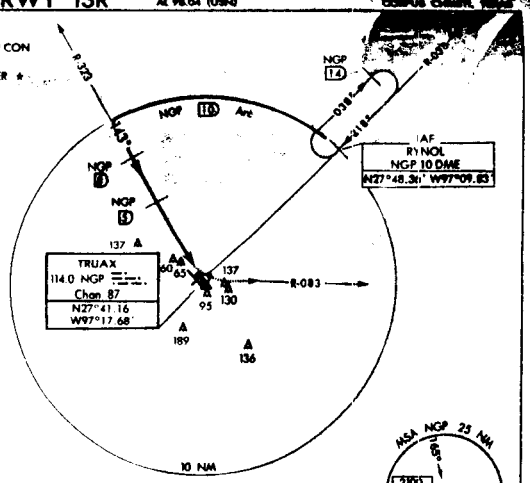
27°47 N 97°17 W CORPUS CHRISTI, TEXAS
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)

VOR or
VOR/DME or
TACAN 1 RWY 13R

AL 98 04 (USN)

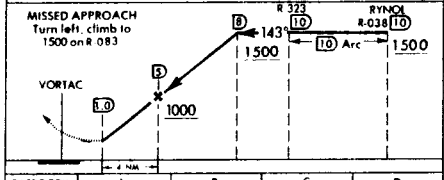
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
CORPUS CHRISTI, TEXAS

ATIS ★
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER ★
126.2 340.2
GND CON
135.3 348.0
ASR/PAR

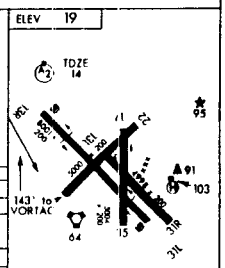


EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn left, climb to 1500 on R-083



ELEV 19



CATEGORY	A	B	C	D
S 13R*	320-¾	306	(400 ½)	
CIRCLING	440 1 421 (500 1)	480 1 461 (500 1)	480 1½ 461 (500 1½)	580-2 561 (600 2)
S PAR 13R*	114/16	100	(100 ¼)	GS 3.0°

* When ALS inop, increase vis ½ mile

REIL Rwy 13R 31L
HIRL all Rwys

24 (f)

VOR/DME or
TACAN 1 RWY 13R

CORPUS CHRISTI, TEXAS
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)

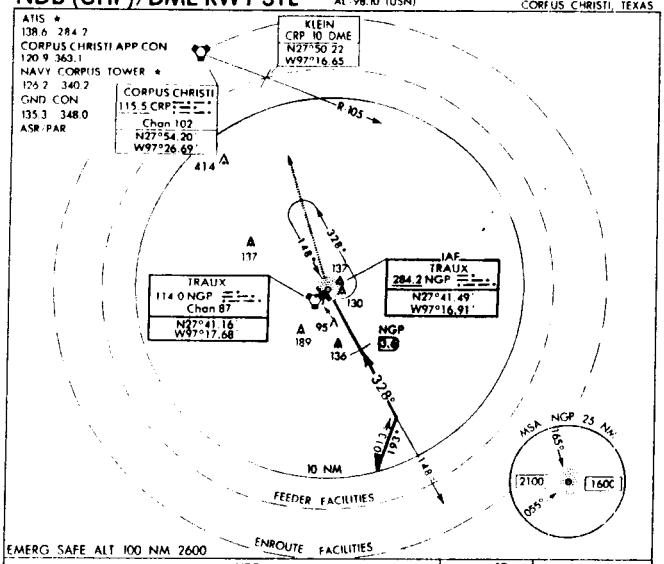
NDB (UHF) or NDB (UHF)/DME RWY 31L

92205

AL 98.10 (USN)

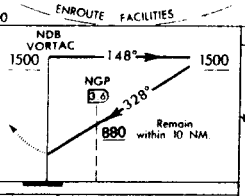
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
CORPUS CHRISTI, TEXAS

ATIS *
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER *
126.2 340.2
GND CON
135.3 348.0
ASR/PAR

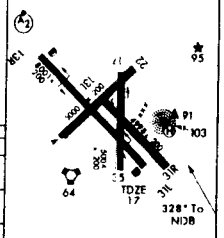


EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn right climb to 2500 direct to KLEIN (1500 if directed).



ELEV 19



CATEGORY	A	B	C	D
S-31L	880-1 863 (900-1)	880-1¼ 863 (900-1¼)	880-2½ 863 (900-2½)	880-2¾ 863 (900-2¾)
CIRCLING	880-1 861 (900-1)	880-1¼ 861 (900-1¼)	880-2½ 861 (900-2½)	880-2¾ 861 (900-2¾)

*With Step-down Fix

S-31L*	440-1 423 (500-1)		440-1¼ 423 (500-1¼)	
CIRCLING*	440-1 421 (500-1)	480-1 461 (500-1)	480-1½ 461 (500-1½)	580-2 561 (600-2)
S-PAR 31L	117-½ 100 (100-½) GS 3.0°			

Final course crosses extn Rwy centerline 4700' prior to threshold.

REIL Rwy 13R-31L
HIRL all Rwys

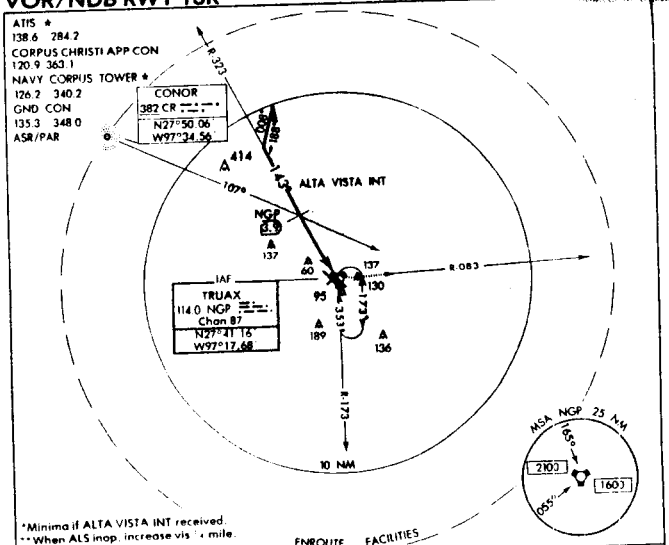
NDB (UHF) or VOR or VOR/NDB RWY 13R

27°42'N 97°17'W

CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
CORPUS CHRISTI, TEXAS

AL 98.02 (USN)

ATIS *
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER *
126.2 340.2
GND CON
135.3 348.0
ASR/PAR

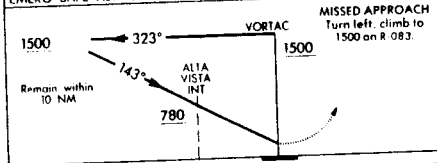


*Minima if ALTA VISTA INT received.
**When ALS inop, increase vis ¼ mile.

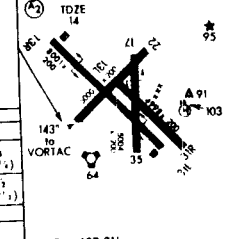
ENROUTE FACILITIES

EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn left, climb to 1500 on R 083.



ELEV 19



CATEGORY	A	B	C	D
S-13R**	780-¾ 766 (800-¾)	780-1 766 (800-1)	780-2 766 (800-2)	780-2¼ 766 (800-2¼)
CIRCLING**	780-1 761 (800-1)	780-1¼ 761 (800-1¼)	780-2¼ 761 (800-2¼)	780-2½ 761 (800-2½)

*VOR NDB Minima

S-13R*	440-¾ 426 (500-¾)		440-1 426 (500-1)	
CIRCLING*	440-1 421 (500-1)	480-1 461 (500-1)	480-1½ 461 (500-1½)	580-2 561 (600-2)
S-PAR 13R**	114-16 100 (100-¾) GS 3.0°			

REIL Rwy 13R-31L
HIRL all Rwys

VOR or VOR/NDB RWY 13R

27°42'N 97°17'W

CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
CORPUS CHRISTI, TEXAS

24 (9)

RADAR INSTRUMENT APPROACH MINIMUMS

CORPUS CHRISTI NAS, TX (1 APR 93 USN)

ELEV 19

RADAR - (E) 6835 134.1 270.8 278.8 337.2 354.8 380.8

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HAA	CEIL-VIS
PAR ⓐ	13R ⓒ	3.0°/40/783	ABCDE	**114**/16	100	(100-¼)
	17	3.0°/43/778	ABCDE	**118**-½	100	(100-½)
	31L	3.0°/41/798	ABCDE	**117**-½	100	(100-½)
	31R	3.0°/36/682	ABCDE	**119**-½	100	(100-½)
	35	3.0°/44/813	ABCDE	**118**-½	100	(100-½)
SIDESTEP ⓓ 13L ⓑ			AB	**800**-2	787	(800-2)
			C	**800**-2¼	787	(800-2¼)
			D	**800**-2½	787	(800-2½)
			E	**800**-2¾	787	(800-2¾)
SIDESTEP ⓓ 31L ⓑ			AB	**800**-2	783	(800-2)
			C	**800**-2¼	783	(800-2¼)
			D	**800**-2½	783	(800-2½)
			E	**800**-2¾	783	(800-2¾)
	31R ⓑ		ABCDE	**800**-2	781	(800-2)
ASR	13R ⓒ		ABC	**400**-¾	386	(400-¾)
			DE	**400**-1	386	(400-1)
	17		ABC	**360**-1	342	(400-1)
			DE	**360**-1¼	342	(400-1¼)
	31L		ABC	**400**-1	383	(400-1)
			DE	**400**-1¼	383	(400-1¼)
	31R		ABC	**400**-1	381	(400-1)
			DE	**400**-1¼	381	(400-1¼)
	35		AB	**440**-1	422	(500-1)
			CD	**440**-1¼	422	(500-1¼)
			E	**440**-1½	422	(500-1½)
	4		AB	**440**-1	423	(500-1)
			CD	**440**-1¼	423	(500-1¼)
			E	**440**-1½	423	(500-1½)
SIDESTEP ⓓ 13L			AB	**800**-2	781	(800-2)
			C	**800**-2¼	781	(800-2¼)
			D	**800**-2½	781	(800-2½)
			E	**800**-2¾	781	(800-2¾)
SIDESTEP ⓓ 31L ⓑ			AB	**800**-2	783	(800-2)
			C	**800**-2¼	783	(800-2¼)
			D	**800**-2½	783	(800-2½)
			E	**800**-2¾	783	(800-2¾)
SIDESTEP ⓓ 31R ⓑ			AB	**800**-2	783	(800-2)
			C	**800**-2¼	783	(800-2¼)
			D	**800**-2½	783	(800-2½)
			E	**800**-2¾	783	(800-2¾)
CIR	4,13R,13L,17		A	**440**-1	421	(500-1)
	22,31L,31R,35		B	**480**-1	461	(500-1)
			C	**480**-1½	461	(500-1½)
			DE	**580**-2	561	(600-2)

ⓐ PAR preventive maint Mon-Fri 1100-1300Z + +, exc 1st and 3rd Wed of month 1000-1300Z + +. ⓑ Sidestep not auth til 2NM fr RWY on final apch. ⓒ When ALS inop increase S-VIS ¼ mile. ⓓ Circling not authorized from Sidestep apch.

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR INSTRUMENT APPROACH MINIMUMS

DALLAS LOVE FIELD, TX (29 OCT 81 FAA)

ELEV 487

RADAR - (V) 119.4 125.8 128.5 290.3 307.2 ▼ ▲

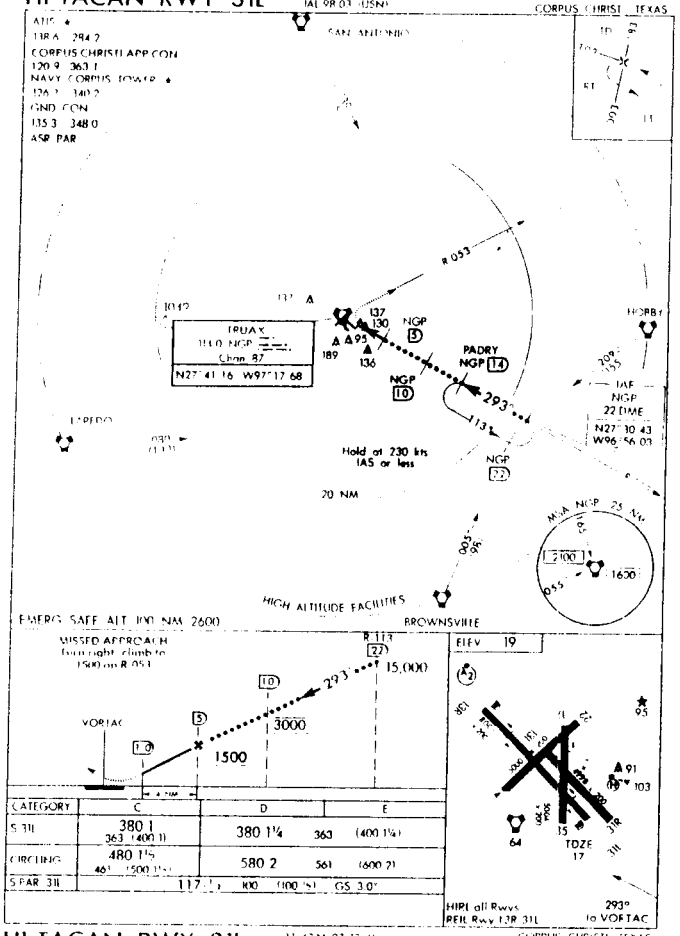
	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	13L		AB	900/24	415	(500-½)
			C	900/40	415	(500-¾)
			D	900/50	415	(500-1)
			[illegible]	[illegible]	425	(500-1)

24(h)

HI TACAN RWY 31L

CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
CORPUS CHRISTI, TEXAS

ATIS
118.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER
126.2 340.2
GND CON
135.3 348.0
ASR PAR



CATEGORY	C	D	E
S 31L	380 1 363 (400 1)	380 1¼ 363 (400 1¼)	
CIRCLING	480 1½ 463 (500 1½)	580 2 563 (600 2)	
S PAR 31L	117 ft 100 (100 ft)	GS 3.0°	

HI TACAN RWY 31L

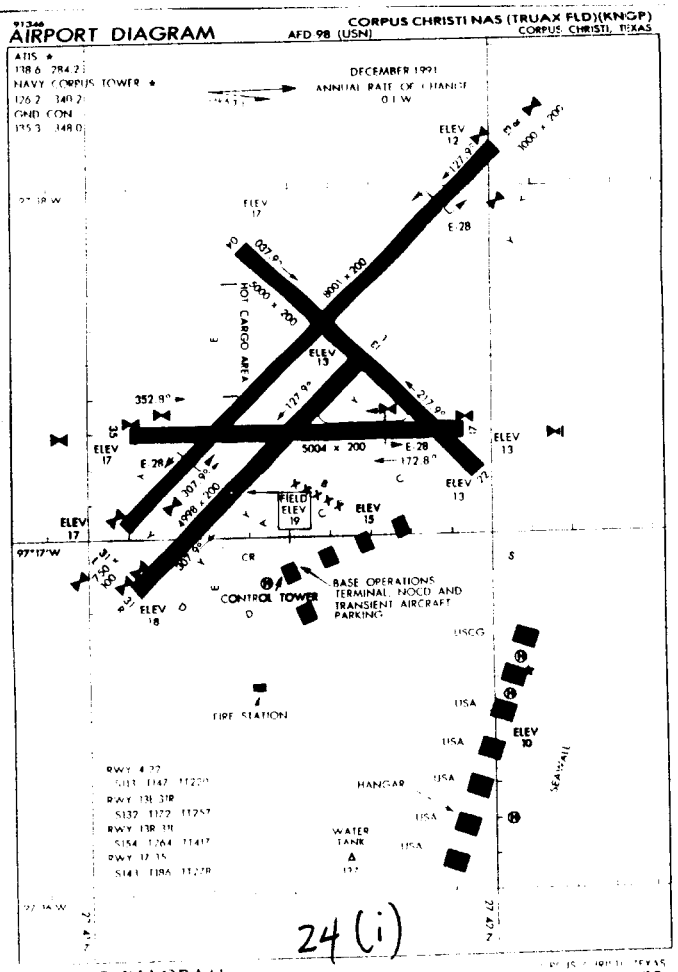
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
CORPUS CHRISTI, TEXAS

AIRPORT DIAGRAM

AFD 98 (USN)

CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
CORPUS CHRISTI, TEXAS

ATIS
118.6 284.2
NAVY CORPUS TOWER
126.2 340.2
GND CON
135.3 348.0



24 (i)

AIRPORT DIAGRAM

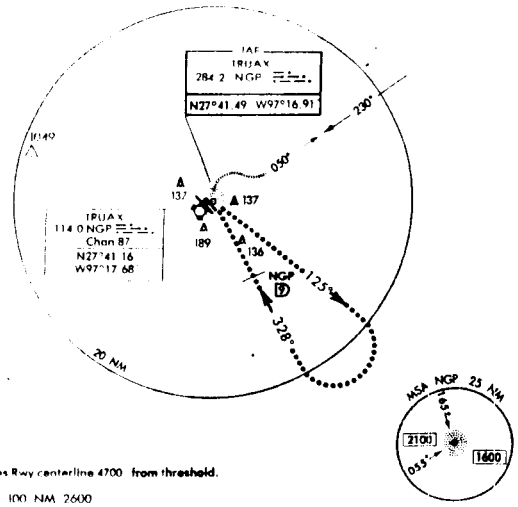
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)

HI-NDB (UHF) or NDB/DME RWY 31L

92261

70 CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
JAL 98.04 (USN) CORPUS CHRISTI, TEXAS

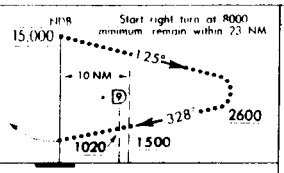
ATIS *
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER *
126.2 340.7
GND CON
135.3 348.0
ASR PAR



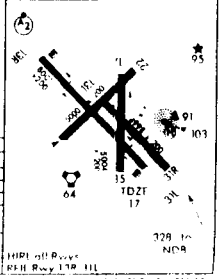
Final course crosses Rwy centerline 4700 **from threshold.**

EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn right climb to 1500 on 050° bearing from NDB



ELEV 19



CATEGORY	C	D	E
S-31L	1520-3	1503	(1600-3)
CIRCLING	1520-3	1501	(1600-3)

*With Step-down Fix

S-31L*	640-1¾ 623 (700-1¾)	640-2 623 (700-2)	640-2¼ 623 (700-2¼)
CIRCLING*	640-1¾ 621 (700-1¾)	640-2 621 (700-2)	640-2¼ 621 (700-2¼)

S-PAR 31L 117-½ 100 (100-½) GS 3.0°

HIRL off Rwy
REIL Rwy 13R-31L

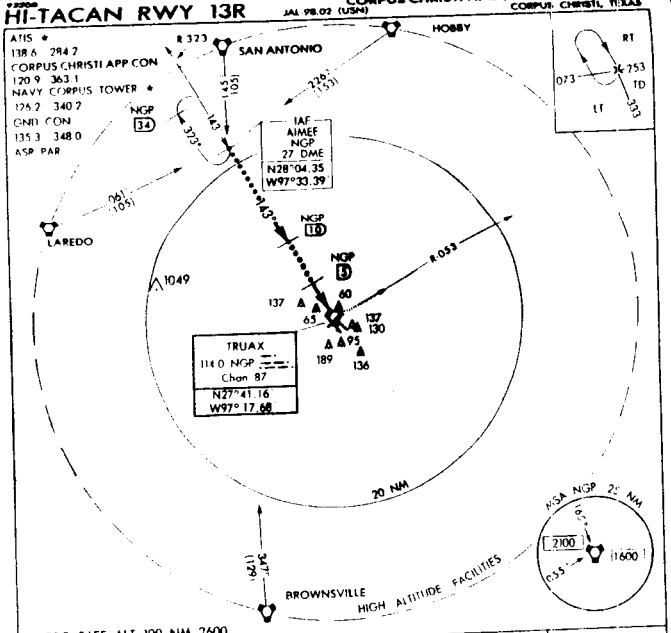
27 42 N 97 12 W

HI-NDB (UHF) or NDB/DME RWY 31L
HI-TACAN RWY 13R

92266

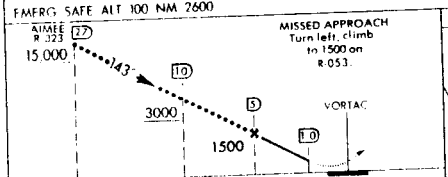
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)
JAL 98.02 (USN) CORPUS CHRISTI, TEXAS

ATIS *
138.6 284.2
CORPUS CHRISTI APP CON
120.9 363.1
NAVY CORPUS TOWER *
126.2 340.7
GND CON
135.3 348.0
ASR PAR

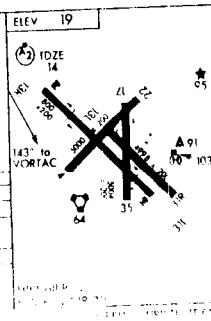


EMERG SAFE ALT 100 NM 2600

MISSED APPROACH
Turn left, climb to 1500 on R-053.



ELEV 19



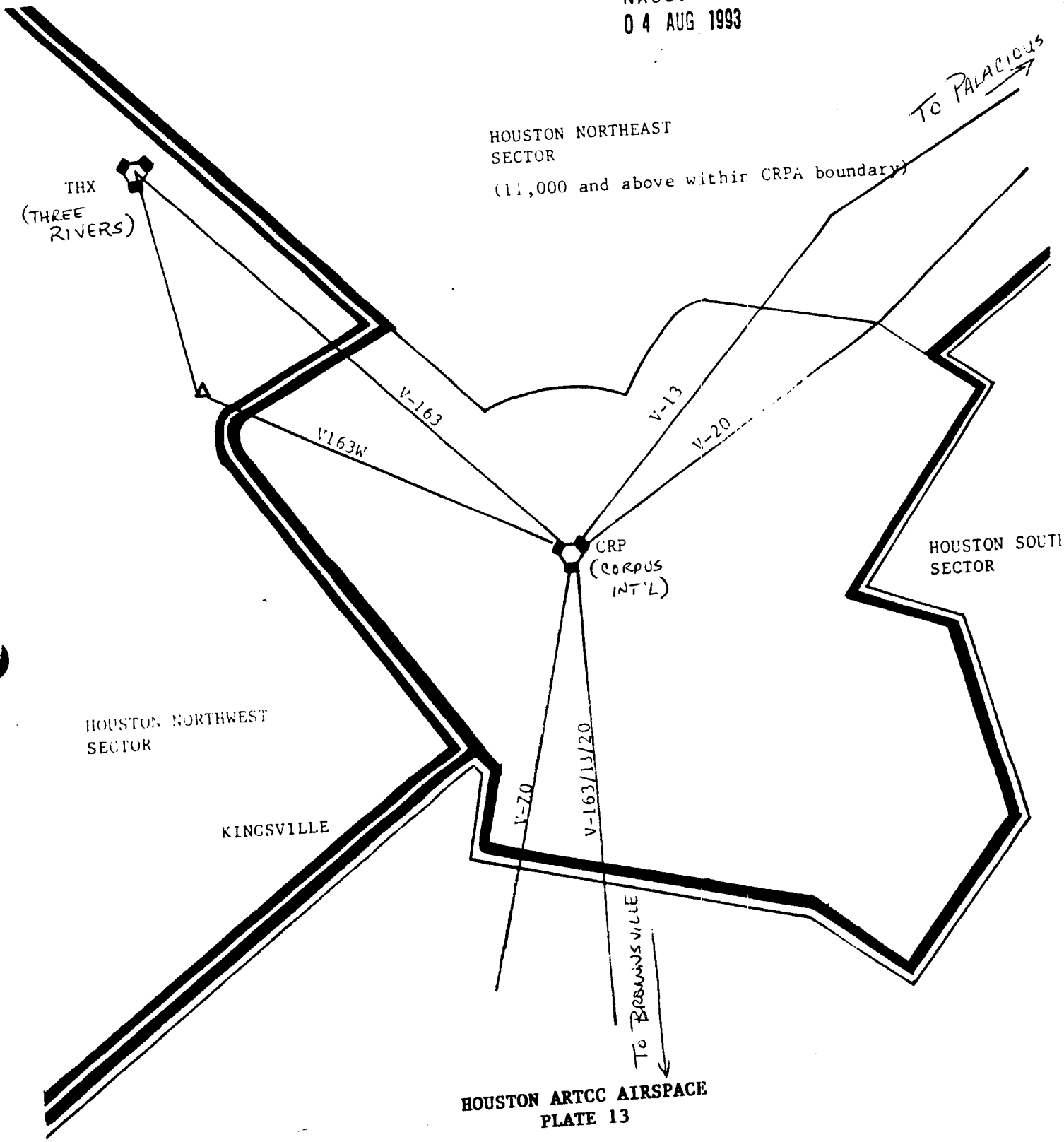
CATEGORY	C	D	E
S-R*	480-1½	320-¾	306 (400-¾)
CIRCLING	480-1½ 461 (500-1½)	580-2 561	(600-2)

S-PAR 13R* 114-16 100 (100-¾) GS 3.0°

*When ALS inop, increase ceiling 20 ft.

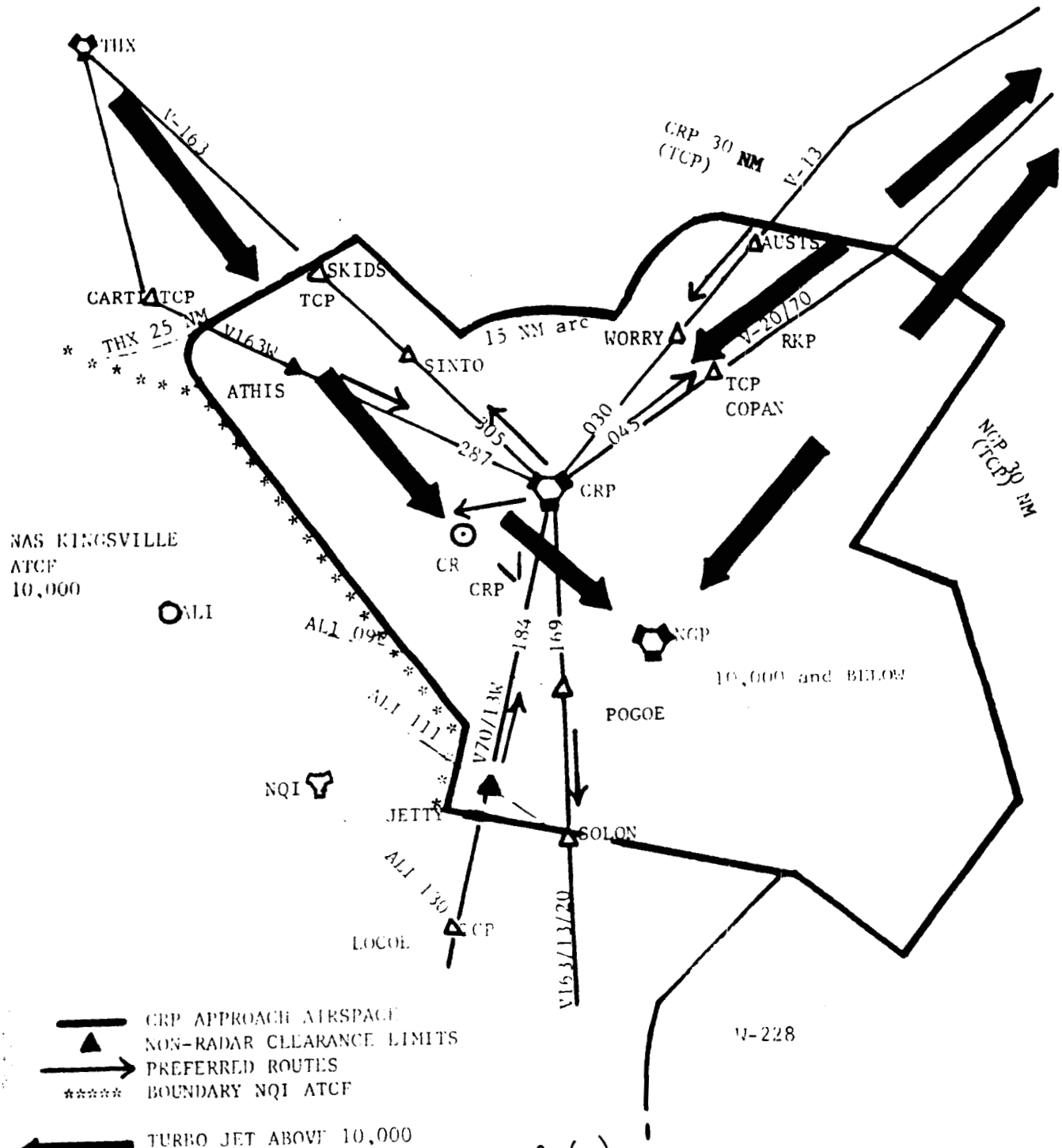
24 (j)

#3



HOUSTON ARTCC AIRSPACE
PLATE 13

#3



24(1)

CORPUS CHRISTI APPROACH CONTROL AIRSPACE/AIRWAYS/PDR'S

PLATE 12

Revision 1

00216 25Apr94

Facilities

A. Air Space and Flight Training Areas (cont)

5. Are there planned changes to the major air traffic structures in the region? If so, will these changes affect air station operations. Describe the effect.

2 CHATRANJ 5-18-94

~~No~~ Yes. ILS AT NAS CORPUS CHRISTI ~~(AUG'94)~~ (FY95) AND ILS/PAR AT NALF ORANGE GROVE (AUG'94) will be installed. These two changes will not affect airfield capacities but will allow ILS approaches to be conducted at home field.

6. Does the current system of air traffic control (ATC) routes limit aircraft flights between the air station and all associated training areas? If so, describe these limitations.

No

7. Does the air station experience any ATC delays on a regular basis? If so, describe the recurring causes for these delays and give the average duration.

No

8. Are there any air traffic control constraints/procedures listed in the current Air Ops manual/AICUZ study that currently, or may in the future, limit air station operations?

No

9. Does the current airspace which you schedule/control permit Advanced Strike training? If not, explain why.

Yes

10. Is there airspace within 50 NM which permits Advanced Strike training?

Yes

11. Does the current airspace configuration permit helicopter training? If not, explain why.

Yes

12. Does the airspace configuration prohibit other types of undergraduate pilot training? If so, explain why.

No

Facilities

A. Air Space and Flight Training Areas (cont)

5. Are there planned changes to the major air traffic structures in the region? If so, will these changes affect air station operations. Describe the effect.

No

6. Does the current system of air traffic control (ATC) routes limit aircraft flights between the air station and all associated training areas? If so, describe these limitations.

No

7. Does the air station experience any ATC delays on a regular basis? If so, describe the recurring causes for these delays and give the average duration.

No

8. Are there any air traffic control constraints/procedures listed in the current Air Ops manual/AICUZ study that currently, or may in the future, limit air station operations?

No

9. Does the current airspace which you schedule/control permit Advanced Strike training? If not, explain why.

Yes

10. Is there airspace within 50 NM which permits Advanced Strike training?

Yes

11. Does the current airspace configuration permit helicopter training? If not, explain why.

Yes

12. Does the airspace configuration prohibit other types of undergraduate pilot training? If so, explain why.

No

00216 25Apr94

Facilities

A. Air Space and Flight training Areas (cont.)

13. For each stage and for each type of undergraduate pilot flight training, state whether overland or overwater training is required or preferred. Use the abbreviations in the key below the table. If a stage of flight training is not listed, please include.

Stage	Strike	E2/C2 Intermediate	Maritime	Helo	Primary
Familiarization SH ONET N44331	N/A	NP	NP SH ONET N44331	N/A	~~LP~~ LR
Basic Instrument		NP	NP		LP
Radio Instrument		LP	LP		LP
Formation		NA	NP		LP
Tactical Formation		NA	NP		~~LP~~ LP
Airway Navigation		LP	LP		~~LP~~ LP
Visual Navigation		NA	LR		LR
Overwater Navigation		NA	WR		NA
Out-of-control Flight		NA	NA		~~LP~~ LP
Carrier Qualifications		NA	NA		NA
Air Combat Maneuvers		NA	NA		NA
Operational Navigation		NA	NA		NA
Weapons		NA	NA		NA
Gunnery		NA	NA		NA
Precision Aerobatics		NA	NA		NA
Helo Tactics		NA	NA		NA
Helo Ship Qualifications		NA	NA		NA
Aerobatics	✓	NA	NA	✓	LP

~ NT CNATRA

Key: LR (Overland Required) WR (Overwater Required) NP (No Preference)
LP (Overland Preferred) WP (Overwater Preferred) NA (Not Applicable)

Facilities

A. Air Space and Flight training Areas (cont.)

14. For each stage and for each type of undergraduate NFO flight training, state whether overland or overwater training is required or preferred. Use the abbreviations in the key below the table. If a stage of flight training is not listed, please include.

No NFO Training at TRAWING FOUR.

Stage	OJN	RIO	TN
Radar Navigation			
Surface Search			
Low Level			
Airways Nav/Radar/Low Level			
Familiarization			
Tactical Low Level			
Advanced Tactical Maneuvers			
Pursuit Intercepts			
Attack/Reattack Intercepts			
Conversion Intercepts			
Unknown Intercepts			
Advanced Intercepts			

Key: LR (Overland Required) WR (Overwater Required) NP (No Preference)
LP (Overland Preferred) WP (Overwater Preferred) NA (Not Applicable)

00216 28Apr94

Facilities

B. Airfields

1. For the main airfield(s) and each auxiliary and outlying field, provide the following data
Airfield Name: NAS, CORPUS CHRISTI, TX

a. Location: - **Corpus Christi, TX**
b. Distance from main field: - **N/A**
c. Does the airfield have more than one runway complex that can conduct independent (i.e., concurrent) flight operations? - **No**
d. Does the airfield have parallel or dual offset runways? - **13L/R are dual runways**
e. If the airfield has parallel or dual offset runways, do they permit dual IFR flight operations? - **No**
e. Does the airfield have full-length parallel taxiways? - **Yes**
f. Does the airfield have high speed taxiways? - **No**
g. Does the airfield have a crosswind runway? - **Yes**
h. If conditions force the use of this runway, does the airfield lose in terms of number of flight ops/hour capacity? - **Yes**
i. How much capacity is lost? - **Approximately 30%**
j. What percent of the time do conditions force the crosswind runway to be used? - **18**
k. Is the airfield equipped to support IFR flight operations? - **Yes**
l. Is the airfield owned by the navy or leased? - **Owned by Navy**
m. Discuss any runway design features that are specific to particular types of training aircraft (e.g., are the airfield facilities designed primarily for helo, prop. or jet train aircraft). - **Airfield is suitable for all undergraduate pilot training aircraft. Only runway 13R/31L is suitable for A-4, T-38 and T-1 trainers.**

2. List all NAVAIDS with published approaches that support the main airfield and/or your outlying and auxiliary airfields. Note any additions/upgrades to be added between now and FY 1997.

NAVAID	Description
CRP VORTAC	TACAN and VOR approaches to NGP
NGP VORTAC	TACAN and VOR approaches
NGP ILS	ILS approach
UHF Beacon	UHF DF
PAR	PAR
ASR	ASR

00216 28Apr94

Facilities

B. Airfields

1. For the main airfield(s) and each auxiliary and outlying field, provide the following data

Airfield Name: WALDRON OLF

a. **Location: - Corpus Christi, TX**
b. **Distance from main field: - 3.5nm South of NGP**
c. **Does the airfield have more than one runway complex that can conduct independent (i.e., concurrent) flight operations? - No**
d. **Does the airfield have parallel or dual offset runways? - No**
e. **If the airfield has parallel or dual offset runways, do they permit dual IFR flight operations? - No**
e. **Does the airfield have full-length parallel taxiways? - No**
f. **Does the airfield have high speed taxiways? - No**
g. **Does the airfield have a crosswind runway? - Yes**
h. **If conditions force the use of this runway, does the airfield lose in terms of number of flight ops/hour capacity? - No**
i. **How much capacity is lost? - N/A**
j. **What percent of the time do conditions force the crosswind runway to be used? - 18**
k. **Is the airfield equipped to support IFR flight operations? - No**
l. **Is the airfield owned by the navy or leased? - Owned by Navy**
m. **Discuss any runway design features that are specific to particular types of training aircraft (e.g., are the airfield facilities designed primarily for helo, prop. or jet train aircraft). - Airfield suitable for all undergraduate pilot training aircraft except A-4, T-38, and T-1.**

2. List all NAVAIDS with published approaches that support the main airfield and/or your outlying and auxiliary airfields. Note any additions/upgrades to be added between now and FY 1997.

NAVAID	Description
Control Tower	

None available

00216 28Apr94

Facilities

B. Airfields

1. For the main airfield(s) and each auxiliary and outlying field, provide the following data

Airfield Name: CABANISS OLF

a. Location: - **Corpus Christi, TX**
b. Distance from main field: - **8nm NNW of NGP**
c. Does the airfield have more than one runway complex that can conduct independent (i.e., concurrent) flight operations? - **No**
d. Does the airfield have parallel or dual offset runways? - **No**
e. If the airfield has parallel or dual offset runways, do they permit dual IFR flight operations? - **No**
e. Does the airfield have full-length parallel taxiways? - **No**
f. Does the airfield have high speed taxiways? - **No**
g. Does the airfield have a crosswind runway? - **Yes**
h. If conditions force the use of this runway, does the airfield lose in terms of number of flight ops/hour capacity? - **No**
i. How much capacity is lost? - **N/A**
j. What percent of the time do conditions force the crosswind runway to be used? - **18**
k. Is the airfield equipped to support IFR flight operations? - **No**
l. Is the airfield owned by the navy or leased? - **Owned by Navy**
m. Discuss any runway design features that are specific to particular types of training aircraft (e.g., are the airfield facilities designed primarily for helo, prop. or jet train aircraft). - **Airfield suitable for all undergraduate pilot training aircraft except A-4, T-38, and T-1.**

2. List all NAVAIDS with published approaches that support the main airfield and/or your outlying and auxiliary airfields. Note any additions/upgrades to be added between now and FY 1997.

NAVAID	Description
Control Tower	

None available

00216 25Apr94

Facilities

B. Airfields

1. For the main airfield(s) and each auxiliary and outlying field, provide the following data

Airfield Name: ARANSAS COUNTY

a. **Location: - Rockport, TX**
b. **Distance from main field: - 19nm NE of NGP**
c. **Does the airfield have more than one runway complex that can conduct independent (i.e., concurrent) flight operations? - No**
d. **Does the airfield have parallel or dual offset runways? - No**
e. **If the airfield has parallel or dual offset runways, do they permit dual IFR flight operations? - No**
e. **Does the airfield have full-length parallel taxiways? - No**
f. **Does the airfield have high speed taxiways? - No**
g. **Does the airfield have a crosswind runway? - Yes**
h. **If conditions force the use of this runway, does the airfield lose in terms of number of flight ops/hour capacity? - No**
i. **How much capacity is lost? - N/A**
j. **What percent of the time do conditions force the crosswind runway to be used? - 18 (est)**
k. **Is the airfield equipped to support IFR flight operations? - Yes**
l. **Is the airfield owned by the navy or leased? - Non-exclusive use of field is leased**
m. **Discuss any runway design features that are specific to particular types of training aircraft (e.g., are the airfield facilities designed primarily for helo, prop. or jet train aircraft). -**
Airfield suitable for all undergraduate pilot training aircraft except A-4, T-38, and T-1 And T-2

2. List all NAVAIDS with published approaches that support the main airfield and/or your outlying and auxiliary airfields. Note any additions/upgrades to be added between now and FY 1997.

NAVAID	Description
CRP VORTAC	TACAN approach to Rockport
Rockport ADF	ADF approach
TACAN (Rockport)	No certified approach

Facilities

B. Airfields (cont)

3. List the major facility assets (by 5 digit category code number (CCN)) under air station control (e.g. runway, parking apron, hangars, terminal, administrative spaces) and assess their material condition by indicating the quantities that are adequate, substandard and inadequate. Specify how the facility is used if it is not obvious from its CCN.

NAS Corpus Christi

Facility Type * (CCN)	Facility Use *	Unit of Measure	Adequate	Substandard	Inadequate
111-10	Runways	SY	724,665		
112-10	Taxiways	SY	376,884		
211-XX	Hangars	SF	1854292	95368	29306
610-XX	Administrative	SF	348490	141173	9002
113-20	Aircraft Parking	SY		633,671	

4. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code: 211-03
b. What makes it inadequate? A02/A04/C40
c. What use is being made of the facility? 211-03
d. What is the cost to upgrade the facility to substandard? $6.1M
e. What other use could be made of the facility and at what cost? 211-05/$500k Clean up and Demolition
f. Current improvement plans and programmed funding: MILCON P-256/$6.1M
g. Has this facility condition resulted in "C3" or "C4" designation on your BASEREP? C3

a. Facility Type/Code: 610-77
b. What makes it inadequate? F30
c. What use is being made of the facility? 610-77
d. What is the cost to upgrade the facility to substandard? $584K
e. What other use could be made of the facility and at what cost? Other 600-xx Series/$584K
f. Current improvement plans and programmed funding: SP #R6-87/$584K
g. Has this facility condition resulted in "C3" or "C4" designation on your BASEREP? N0

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00216 25Apr94 DATACALL THREE

Facilities

B. Airfields (cont)

3. List the major facility assets (by 5 digit category code number (CCN)) under air station control (e.g. runway, parking apron, hangars, terminal, administrative spaces) and assess their material condition by indicating the quantities that are adequate, substandard and inadequate. Specify how the facility is used if it is not obvious from its CCN.

NAS Corpus Christi

Facility Type * (CCN)	Facility Use *	Unit of Measure	Adequate	Substandard	Inadequate
111-10	Runways	SY	724,665		
112-10	Taxiways	SY	376,884		
211-XX	Hangars	SF	1,684,440	185,259	
610-XX	Administrative	SF	350,762 ~~377,306~~	150,175 ~~82,248~~	
113-20	Aircraft Parking	SY		633,671	

JC CNATRA N61

R Arnold NASCORPC 9 Aug 94

4. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

a. **Facility Type/Code:**
b. **What makes it inadequate?**
c. **What use is being made of the facility?**
d. **What is the cost to upgrade the facility to substandard?**
e. **What other use could be made of the facility and at what cost?**
f. **Current improvement plans and programmed funding:**
g. **Has this facility condition resulted in "C3" or "C4" designation on your BASEREP?**

Facilities

B. Airfields (cont)

3. List the major facility assets (by 5 digit category code number (CCN)) under air station control (e.g. runway, parking apron, hangars, terminal, administrative spaces) and assess their material condition by indicating the quantities that are adequate, substandard and inadequate. Specify how the facility is used if it is not obvious from its CCN.

NAS Corpus Christi

Facility Type * (CCN)	Facility Use *	Unit of Measure	Adequate	Substandard	Inadequate
111-10	Runways	SY	724,665		
112-10	Taxiways	SY	376,884		
211-XX	Hangars	SF	1,684,440	185,259	
610-XX	Administrative	SF	377,196	82,245	
113-20	Aircraft Parking	SY		633,671	

Jc CNATRA N61

4. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code:
b. What makes it inadequate?
c. What use is being made of the facility?
d. What is the cost to upgrade the facility to substandard?
e. What other use could be made of the facility and at what cost?
f. Current improvement plans and programmed funding:
g. Has this facility condition resulted in "C3" or "C4" designation on your BASEREP?

00216 25Apr94

Facilities

B. Airfields (cont)

3. List the major facility assets (by 5 digit category code number (CCN)) under air station control (e.g. runway, parking apron, hangars, terminal, administrative spaces) and assess their material condition by indicating the quantities that are adequate, substandard and inadequate. Specify how the facility is used if it is not obvious from its CCN.

NALF Cabaniss

Facility Use * (CCN)	Unit of Measure	Adequate	Substandard	Inadequate
Runways (111-10)	SY		~~342,035~~ 299,790	
Taxiways (112-10)	SY	112,800		
Aircraft Parking (113-20)	SY		42,272	

pc CNATRA N61

4. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code:
b. What makes it inadequate?
c. What use is being made of the facility?
d. What is the cost to upgrade the facility to substandard?
e. What other use could be made of the facility and at what cost?
f. Current improvement plans and programmed funding:
g. Has this facility condition resulted in "C3" or "C4" designation on your BASEREP?

R

00216 02Sep94

Facilities

B. Airfields (cont)

3. List the major facility assets (by 5 digit category code number (CCN)) under air station control (e.g. runway, parking apron, hangars, terminal, administrative spaces) and assess their material condition by indicating the quantities that are adequate, substandard and inadequate. Specify how the facility is used if it is not obvious from its CCN.

NALF Waldron

Facility Type * (CCN)	Facility Use *	Unit of Measure	Adequate	Substandard	Inadequate
111-10	Runways	SY		342,035	
112-10	Taxiways	SY	135,401		
113-20	Aircraft Parking	SY			62,938

R

4. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code: - 113-20
b. What makes it inadequate? - A35/F30
c. What use is being made of the facility? - 113-20
d. What is the cost to upgrade the facility to substandard? - $11.19K
e. What other use could be made of the facility and at what cost? -451-10/Open storage/ unknown
f. Current improvement plans and programmed funding: - None
g. Has this facility condition resulted in "C3" or "C4" designation on your BASEREP? - No

00216 25Apr94

Facilities

B. Airfields (cont)

3. List the major facility assets (by 5 digit category code number (CCN)) under air station control (e.g. runway, parking apron, hangars, terminal, administrative spaces) and assess their material condition by indicating the quantities that are adequate, substandard and inadequate. Specify how the facility is used if it is not obvious from its CCN.

NALF Waldron

Facility Type * (CCN)	Facility Use *	Unit of Measure	Adequate	Substandard	Inadequate
111-10	Runways	SY		~~299,790~~ 342,035	
112-10	Taxiways	SY	135,401		
113-20	Aircraft Parking	SY			62,938

per CNATRA N61

4. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

a. **Facility Type/Code: - 113-20**
b. **What makes it inadequate? - A35 F30**
c. **What use is being made of the facility? - Unused**
d. **What is the cost to upgrade the facility to substandard? - $500K**
e. **What other use could be made of the facility and at what cost? -Open storage, $500K**
f. **Current improvement plans and programmed funding: - None**
g. **Has this facility condition resulted in "C3" or "C4" designation on your BASEREP? - No**

R

00216 02Sep94

Facilities

C. Ground Training Facilities

1. List other types of ground training facilities at the air station (e.g., classrooms, pistol ranges, water survival facilities). Provide the 5 digit category code number (CCN) where possible. Indicate if these facilities are unique or if they include any specialized equipment and assess their material condition by indicating the quantities that are adequate, substandard and inadequate. Specify how the facility is used if it is not obvious from its CCN.

Facility Type (CCN)	Facility Use	Unit of Measure	Adequate	Substandard	Inadequate
171-15	Reserve Training Center	SF	14,590		
171-25	Auditorium (in BQ)	SF	18,720		
171-20	Applied Instruction Building	SF	50,549	4,000	
179-50	Training Course	AC	115	2.89	

R.

2. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code:
b. What makes it inadequate?
c. What use is being made of the facility?
d. What is the cost to upgrade the facility to substandard?
e. What other use could be made of the facility and at what cost?
f. Current improvement plans and programmed funding:
g. Has this facility condition resulted in "C3" or "C4" designation on your BASEREP?

00216 25Apr94

Facilities

C. Ground Training Facilities

1. List other types of ground training facilities at the air station (e.g., classrooms, pistol ranges, water survival facilities). Provide the 5 digit category code number (CCN) where possible. Indicate if these facilities are unique or if they include any specialized equipment and assess their material condition by indicating the quantities that are adequate, substandard and inadequate. Specify how the facility is used if it is not obvious from its CCN.

Facility Type (CCN)	Facility Use	Unit of Measure	Adequate	Substandard	Inadequate
171-15	Reserve Training Center	SF	14,590		
171-25	Auditorium (in BQ)	SF	18,720		
171-20	Applied Instruction Building	SF	50,549	4,000	
~~171~~ 179-50	Training Course	AC	117.78		

CNATRA N61

2. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code:
b. What makes it inadequate?
c. What use is being made of the facility?
d. What is the cost to upgrade the facility to substandard?
e. What other use could be made of the facility and at what cost?
f. Current improvement plans and programmed funding:
g. Has this facility condition resulted in "C3" or "C4" designation on your BASEREP?

Facilities

D. Aircraft Maintenance Facilities

1. Complete the following table for each type of aircraft which can be maintained at your air stations. Place an "x" in the applicable columns for each type of aircraft.

Aircraft Types	Level of Maintenance			Source	
	Depot	Intermediate	Organizational	DOD	Contract
C-12			X		X
UH-1N			X	X	
T-44A	X	X	X		X
T-34C	X (limited)	X	X		X
Helicopters (CCAD)	X	X	X	X	
P-3	X	X	X		X

Facilities

E. Ship Berthing and Maintenance Facilities

1. List all ships (military and other) scheduled to be homeported at this facility through Fiscal Year 1997. None

Ship name (hull number)	Military/Other	Arrival/Departure or Decommission Date

2. List the ship maintenance facilities located at or near this air station.

Organization (military/private)	Level of Maintenance (shipyard/depot/intermediate)	Drydock (capacity)
SIMA Ingleside	Intermediate	None

3. In the following table, provide the optimum ship berthing configurations available at the installation.

Piers are not presently suited for ships because of inadequate depth and pier services.

Ship Class	Configuration					Comments
	option 1	option 2	option 3	option 4	option 5	

Facilities

E. Ship Berthing and Maintenance Facilities (cont.)

4. Describe restrictions and limitations on homeporting different types of ships.

Ship Class	Comments on Limitations and Restrictions
All classes	Limited. Restricted by shallow transit depth from Gulf of Mexico, shallow berthing depth and lack of utility services to the piers.

Facilities

F. Special Military Facilities

1. List all facilities and equipment that play a special role in military operations (e.g., radar, communications, command and control, oceanographic facilities) of the aircraft at the installation.

Type of Facility	Operational Mission of Facility
RATCC	Precision radar approach, approach and departure control Monitors majority of assisgned SUA

2. List any weapons storage and handling facilities located at the air station.

Type of Facility	Location	Mission and Capability of Facility
Magazine A-1	Dimmit Island	Pyrotechnics 30,000 lbs
Magazine A-2	Dimmit Island	Pyrotechnics 30,000 lbs
Magazine A-3	Dimmit Island	Small arms ammunition 30,000 lbs
Magazine A-4	Dimmit Island	Detonation cord 30,000 lbs
Magazine A-5	Dimmit Island	Fuses and Det cord 15,000 lbs
Magazine A-6	Dimmit Island	High explosives 30,000 lbs
Magazine A-7	Dimmit Island	High explosives 30,000 lbs
Magazine A-11	Dimmit Island	High explosives 30,000 lbs
Magazine A-14	Dimmit Island	High explosives 30,000 lbs

NOTE: This data represents the most current usage.

Facilities

G. Non-DON Facility Support Arrangements

1. List all arrangements (e.g., inter-service support agreements) that involve supporting military (non-DON) activities at the air station.

Activity Name / Military Service	Description of Activity Role and Degree of Support
Corpus Christi Army Depot/DOA	Helicopter repair depot, full support
Defense Reutilization and Marketing Office/DLA	Defense salvage yard and recycle, full support
Kelly Air Force Base/DAF	Recreational lodging, facility and utility support
90th Army Command/DOA	Reserve command, full support
Stadium Clock/DOD	Classified, full support
Defense Commissary Agency/DeCA	Commissary Store, full support
Defense Distribution Depot/DLA	Wholesale distribution and warehousing, full support
* Joint Task Force Six/DOD	Counterdrug operation, staging and operations support
* Air Force Rome Laboratory/DAF	Over-Horizon Radar, logistic support

*** Supported by but not permanently located on NASCORPC.**

2. List all formal support agreements and other arrangements that involve supporting other governmental agencies (federal, state, local or international) or civilian activities at the air station.

Activity / Sponsor / Government Affiliation	Description of Activity Role and Support Level
Eight Coast Guard District/Dept of Transportation	Search and Rescue and Patrol, Full Support
Coast Guard Group/Dept of Transportation	Command Control, search, rescue and patrol, full support
Coast Guard Law Enforcement Team Det/Dept of Transportation	Enforcement, interdiction and training, full support
U.S. Customs Service Surveillance Center/Dept of Treasury	Counterdrug air surveillance, full support
* Department of Interior	Wetlands Environment Research, logistic support
* Headquarters, Fort Sam Houston/DOA	Personnel and logistic support and staging, contingency full support
Army San Antonio District Recruiting Office/DOA	Army Recruiting, intermediate support
* All Navy Activities in Texas, Oklahoma, New Mexico and Arkansas/DON	Supply Contract Support above $2,500
* All DOD in 17 south Texas counties	Full Personal Property support

*** Supported by but not permanently located on NASCORPC.**

00216 29Apr94

Location

A. Proximity to Operational Mission Areas

1. Does the location of the air base have any strategic role at the present time or in future plans (include both location and attributes available at that location, e.g., waterfront space). Discuss alternate military/civilian facilities that could fulfill the same strategic role.

The Air Station is ideally situated for the U.S. Customs mission. Only two minutes of transit time is required for air access to the Gulf of Mexico. All DOD airlift aircraft, including the C-5, can conduct runway, taxiway and ramp operations. Logistical support for worldwide operations can be quickly and efficiently effected from NASCORPC. CCAD and MINEWARCOM assets can be rapidly deployed.

00216 25Apr94

Location

B. Proximity to Training Areas

1. Does the location of the air station permit any specialized training with other operational units (e.g. Battle Groups or Joint forces)? If so, provide details.

Yes, COMINEWARCOM can conduct integrated air and surface training from a single geographic site. The air assets can be launched from NASCORPC and the surface forces can be berthed at NS Ingleside.

2. Describe the plan for conducting carrier and helicopter landing trainer qualifications. Will ship deploy to training squadron site or will squadrons deploy?

Plans do not exist at this time. See question four below.

3. How far (nmi.) is the air station from a designated naval operations area where an aircraft carrier would conceivably operate ?

15 nm

4. If the aircraft carrier deploys to an area within operating range of training air squadrons, would CQ training usually conducted directly from the air station or on a detachment basis?

NASCORPC has and could again directly support training carrier operations in local coastal waters as a primary field and as a divert field.

Location

C. Proximity to Other Support Facilities

1. List other airfields (currently not used for undergraduate pilot and/or NFO training) in the local flying area that are available for training and emergency uses.

Airfield Name	Major Use / Capability	Location / Distance
T. P. McCampbell	None/VFR pattern	10nm NE NGP
*NOLF Goliad	None/VFR pattern	45nm N NGP
*Chase Field	None/VFR pattern/radio inst	35nm N NGP

* Closed during BRAC 91

2. What other military facilities located in the vicinity are/could be used to support the air station's and tenants' mission?

Military Facility Name	Actual / Proposed Use	Distance
NAS Kingsville	RI/Pattern	30nm SW
NOLF Orange Grove	RI/Pattern	40nm W
NS Ingleside	Serve as host for Mine Warfare	45 minutes

3. What civilian owned facilities located in the vicinity are/could be used to support the air station's and tenants' mission?

Facility Name	Actual / Proposed Use	Distance
Alice Intl	RI	40nm W
Corpus Christi Intl	Pattern and RI	10nm N
Brownsville Intl	RI	110nm S
McAllen Intl	RI	100nm S
Harlingen Intl	RI	100nm S
Aransas County	Pattern RI	19nm NE
Kleberg County	RI	40nm SW

* All airfields listed in this chart are currently being utilized.

R

00216 31Aug94

Features and Capabilities

A. Weather

R

1. What percentage of the time (on average, by month), does the local weather affect training operations and restrict airfield sortie rates. Use the following chart and add any further descriptions on how weather generally impacts airfield and training operations (recurring wind or fog conditions, etc.).

Local Field: NGP

Month	% of Hours[3] VFR	% of Hours IFR	% of Hours Below 500 ft Ceilings and 1.0 Mile Visibility	Annual number of daylight flying hours rescheduled/ canceled due to weather
Jan.	75	25	14.1	*1027
Feb.	79	21	11.7	*1090
Mar.	80	20	11.6	*1244
Apr.	77	23	7.4	*955
May	88	12	1.2	*613
June	98	2	.2	*647
July	99	1	<.1	*38
Aug.	99	1	.3	*174
Sept.	97	3	.5	*208
Oct.	96	4	.9	*434
Nov.	90	10	3.9	*799
Dec	83	17	8.7	*328

***Total number of sorties ~~canceled~~ due to weather.**

CANCELLED

CNATRA N443
9/13/94

[3]Percentage of total normal operating hours that specified weather conditions were observed (include list of normal operating hours used for this calculation).

00216 28Apr94

Features and Capabilities

A. Weather

1. What percentage of the time (on average, by month), does the local weather affect training operations and restrict airfield sortie rates. Use the following chart and add any further descriptions on how weather generally impacts airfield and training operations (recurring wind or fog conditions, etc.).

Local Field: NGP

Month	% of Hours[3] VFR	% of Hours IFR	% of Hours Below 500 ft Ceilings and 1.0 Mile Visibility	Annual Number of Daylight Flying Hours Rescheduled/ Canceled Due to Weather
Jan.	75	25	14.1	*1329
Feb.	79	21	11.7	*1311
Mar.	80	20	11.6	*1422
Apr.	77	23	7.4	*1238
May	88	12	1.2	*830
June	98	2	.2	*878
July	99	1	<.1	*57
Aug.	99	1	.3	*244
Sept.	97	3	.5	*374
Oct.	96	4	.9	*620
Nov.	90	10	3.9	*1020
Dec	83	17	8.7	*503

SEE NOTE BELOW. GEManley CNET N443 02 MAY94

*** Total number of sorties cancelled due to weather.**

Normal Operating Hours 0700 -2400 M-F

SH (Nertel) CNET N44331

[3]Percentage of total normal operating hours that specified weather conditions were observed (include list of normal operating hours used for this calculation).

NOTE: SORTIE VALUES REPORTED FOR "ANNUAL NUMBER OF DAYLIGHT FLYING HOURS RESCHEDULED/CANCELED DUE TO WEATHER" WILL BE CONVERTED TO THE APPROPRIATE UNITS, CERTIFIED, AND SUBMITTED AS SOON AS POSSIBLE UNDER SEPARATE CORRESPONDENCE. GEManley CNET N443 02MAY94

Features and Capabilities

A. Weather (cont.)

2. Give the official planning factor for percent of sorties lost due to weather (based on historic data).

T-34 - 18%, T-44 - 9%

3. Do the normal weather conditions at the most frequently used training areas pose a chronic problem for scheduling training sorties? If so, are alternate training areas used? Does the use of alternate training facilities involve relocating aircraft and support personnel to other air stations during certain times of the year?

No

Features and Capabilities

B. Encroachment

1. Are there any known plans for a commercial airline to hub at an airport within 100 nmi. of your air station? If so, describe.

No

2. Have there been any ATC delays (15 minutes or greater) between initial take-off request and actual take-off during the past three years as a result of civilian traffic? If so, please complete the following table.

No

Fiscal Year	Average Delay (minutes)	Number of Delays	% of Total Flight Operations Scheduled
1991			
1992			
1993			

3. How many times during each of the past three years have any of your low level training routes or any of the low level training routes you used been modified to accommodate construction and/or noise complaints?

None

Fiscal Year	Number of changes
1991	
1992	
1993	

Features and Capabilities

B. Encroachment (cont)

4. Is the existing AICUZ study encoded in local zoning ordinances?

Yes, see attached plans. (ATTACHMENT 1)

a. Attach a copy of any applicable sections of the air station's AICUZ plan and those for OLFs used, and note any recent modifications.

SEE ATTACHED (ATTACHMENT 1)

b. Provide a description of local zoning ordinances and their impact on future encroachment, restricted flight hours and details of any litigation history.

SEE ATTACHED (ATTACHMENT 2)

5. Do current estimates of population growth and development or environmental constraints pose problems for existing or planned mission?

There are no known constraints that pose problems for existing or planned mission. (ATTACHMENT 3)

6. Provide a copy of the current and proposed land development plans for the area surrounding the air station (i.e., the local government's comprehensive land-use plan).

SEE ATTACHED (ATTACHMENT 4)

Features and Capabilities

C. Quality of Life

1. Military Housing

(a) Family Housing:

(1) Do you have mandatory assignment to on-base housing? (circle) yes NO

(2) For military family housing in your locale provide the following information:

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	53	53	0	0
Officer	3	56	56	0	0
Officer	1 or 2	18	18	0	0
Enlisted	4+	32	32	0	0
Enlisted	3	256	256	0	0
Enlisted	1 or 2	24	24	0	0
Mobile Homes	0	0	0	0	0
Mobile Home lots	0	28	28	0	0

(3) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

Facility type/code:
What makes it inadequate?
What use is being made of the facility?
What is the cost to upgrade the facility to substandard?
What other use could be made of the facility and at what cost?
Current improvement plans and programmed funding:
Has this facility condition resulted in C3 or C4 designation on your BASEREP?

R

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Features and Capabilities

C. Quality of Life (cont.)

(4) Complete the following table for the military housing waiting list.

Pay Grade	Number of Bedrooms	Number on List[4]	Average Wait
O-6/7/8/9	1	Not avl	Not avl
	2	Not avl	Not avl
	3	Not avl	Not avl
	4+	6	6 Months
O-4/5	1	Not avl	Not avl
	2	Not avl	Not avl
	3	Not avl	Not avl
	4+	18	12 Months
O-1/2/3/CWO	1	Not avl	Not avl
	2	21	6 Months
	3	41	9 Months
	4+	2	6 Months
E7-E9	1	Not avl	Not avl
	2	Not avl	Not avl
	3	36	24 Months
	4+	13	0
E1-E6	1	Not avl	Not avl
	2	159	24 Months
	3	119	8 Months
	4+	30	24 Months

[4]As of 31 March 1994.

Features and Capabilities

C. Quality of Life (cont.)

(4) Complete the following table for the military housing waiting list.

Pay Grade	Number of Bedrooms	Number on List[4]	Average Wait
O-6/7/8/9	1	Not avl	Not avl
	2	Not avl	Not avl
	3	Not avl	Not avl
	4+	7	6 Months
O-4/5	1	Not avl	Not avl
	2	Not avl	Not avl
	3	Not avl	Not avl
	4+	17	12 Months
O-1/2/3/CWO	1	Not avl	Not avl
	2	27	6 Months
	3	41	9 Months
	4+	2	6 Months
E7-E9	1	Not avl	Not avl
	2	Not avl	Not avl
	3	36	24 Months
	4+	0	0
E1-E6	1	Not avl	Not avl
	2	159	24 Months
	3	119	8 Months
	4+	43	24 Months

[4]As of 31 March 1994.

Features and Capabilities

C. Quality of Life (cont.)

(4) Complete the following table for the military housing waiting list.

Pay Grade	Number of Bedrooms	Number on List[4]	Average Wait
O-6/7/8/9	1	0	O
	2	0	0
	3	0	0
	4+	7	6 Months
O-4/5	1	0	0
	2	0	0
	3	0	0
	4+	17	12 Months
O-1/2/3/CWO	1	0	0
	2	27	6 Months
	3	41	9 Months
	4+	2	6 Months
E7-E9	1	0	0
	2	N/A	0
	3	36	24 Months
	4+	0	0
E1-E6	1	0	0
	2	159	24 Months
	3	119	8 Months
	4+	43	24 Months

[4]As of 31 March 1994.

Features and Capabilities

C. Quality of Life (cont.)

(5) What do you consider to be the top five factors driving the demand for base housing? Does it vary by grade category? If so provide details.

	Top Five Factors Driving the Demand for Base Housing
1	Cost of living
2	Tight rental market
3	Security
4	School district
5	Convenience

(6) What percent of your family housing units have all the amenities required by "The Facility Planning & Design Guide" (Military Handbook 1190 & Military Handbook 1035-Family Housing)?

100%

(7) Provide the utilization rate for family housing for FY 1993.

Type of Quarters	Utilization Rate
Adequate	99.24%
Substandard	N/A
Inadequate	N/A

(8) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason?

There has been no significant change.

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Features and Capabilities

C. Quality of Life (cont.)

(b) BEQ:

(1) Provide the utilization rate for BEQs for FY 1993.

Type of Quarters	Utilization Rate
Adequate	76%
Substandard	*0-N/A
Inadequate	*0-N/A

*CNET (HEARD N-4433) change of 2 May 94

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? NO (75%) If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

There are more than enough quarters to adequately house personnel currently assigned to the Naval Air Station.

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows: 49

$$AOB = \frac{(\text{\# Geographic Bachelors x average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			Unknown
Spouse Employment (non-military)			Unknown
Other			Unknown
TOTAL		100	

(5) How many geographic bachelors do not live on base? Unknown to CBQ.

Features and Capabilities

C. Quality of Life (cont.)

(b) BEQ:

(1) Provide the utilization rate for BEQs for FY 1993.

Type of Quarters	Utilization Rate
Adequate	75
Substandard	0-N/A
Inadequate	0. N/A

HEARD CNET N-4433

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

There are more than enough quarters to adequately house personnel currently assigned to the Naval Air Station.

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows: 49

$$\text{AOB} = \frac{(\text{\# Geographic Bachelors x average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			Unknown
Spouse Employment (non-military)			Unknown
Other			Unknown
TOTAL		100	

(5) How many geographic bachelors do not live on base? Unknown to CBQ.

Manpower Implications (cont.)

A. Quality of Life (cont.)

(c) BOQ:

(1) Provide the utilization rate for BOQs for FY 1993.

Type of Quarters	Utilization Rate
Adequate/Permanent	**66%**
Substandard/Semi-Permanent	**N/A**
Inadequate/Temporary	**N/A**

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? **YES (77%)*** If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

***COMMINEWARCOM personnel have increased occupancy rate. There is no BOQ at Naval Station Ingleside.**

(d) Have any family housing/BOQ/BEQ units been vacated for purposes of renovation or are new units under construction? State type unit, total number of units, size, capacity and availability date.

Units Under Renovation or Construction				
Type Unit (Family Housing/BOQ/BEQ)	Total Number	Size (Appropriate Measure)	Capacity (Appropriate Measure)	Availability Date
72112	**184**	**250/269 SF**	**184**	**Est Dec 95**
72111	**87**	**270/359 SF**	**87**	**Design Stage**
72111	**94**	**250/269 SF**	**94**	**Design Stage**

(e) Provide the following information on any family housing/BOQ/BEQ units planned for construction (MILCON) for FY94 - 97. State type unit, total number of units, size, capacity, and availability date.
711-xx Family Housing/ Dwelling/ 100 Units/ FY-95/ Planning Phase
711-xx Family Housing/ Dwelling/ 200 Units/ FY-96/ Planning Phase
711-xx Family Housing/ Dwelling/ 400 Units/ FY-97/ Planning Phase

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Features and Capabilities

C. Quality of Life (cont.)

(c) BOQ:

(1) Provide the utilization rate for BOQs for FY 1993.

Type of Quarters	Utilization Rate
Adequate	66%
Substandard	*N/A
Inadequate	*N/A

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*CNET (HEARD N-4433) change of 2 May 94

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? YES (77%) If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

*COMMINEWARCOM personnel have increased occupancy rate. There is no BOQ at Naval Station Ingleside.

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows: 26

$$AOB = \frac{(\text{\# Geographic Bachelors x average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			Unknown
Spouse Employment (non-military)			Unknown
Other			Unknown
TOTAL		100	

(5) How many geographic bachelors do not live on base? Unknown

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Features and Capabilities

C. Quality of Life (cont.)

(c) BOQ:

(1) Provide the utilization rate for BOQs for FY 1993.

Type of Quarters	Utilization Rate
Adequate	44%
Substandard	*N/A
Inadequate	*N/A

*CNET (HEARD N-4433) change of 2 May 94

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? YES (77%) If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

*COMMINEWARCOM personnel have increased occupancy rate. There is no BOQ at Naval Station Ingleside.

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows: 26

$$AOB = \frac{(\text{\# Geographic Bachelors x average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			Unknown
Spouse Employment (non-military)			Unknown
Other			Unknown
TOTAL		100	

(5) How many geographic bachelors do not live on base? Unknown

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Features and Capabilities

C. Quality of Life (cont.)

(c) BOQ:

(1) Provide the utilization rate for BOQs for FY 1993.

Type of Quarters	Utilization Rate
Adequate	77
Substandard	N/A
Inadequate	N/A

HEARD CNET N4433 for 2 mos 94

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? No If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

There are more than enough quarters to adequately house personnel currently assigned to the Air Station.

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows: 26

$$AOB = \frac{(\text{\# Geographic Bachelors x average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			Unknown
Spouse Employment (non-military)			Unknown
Other			Unknown
TOTAL		100	

(5) How many geographic bachelors do not live on base? Unknown

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Features and Capabilities

C. Quality of Life (cont.)

2. For on-base MWR facilities[5] available, complete the following table for each separate location. For off-base government owned or leased recreation facilities indicate distance from base. If there are any facilities not listed, include them at the bottom of the table.

LOCATION NASCORPC DISTANCE _____

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Auto Hobby	Indoor Bays	5	Y
	Outdoor Bays	36	Y
Arts/Crafts	SF	3000	Y
Wood Hobby	SF	0	N/A
Bowling	Lanes	12	Y
Recreation Center	SF	19,500	Y - rental
Consolidated CLUB	SF	32,000	Y
Library	SF	4,463	N
Library	Books	22,000	N
Theater *	Seats	1500	N/A
ITT	SF	2400	Y
Museum/Memorial	SF	0	N/A
Pool (indoor)	Lanes SF	0	N/A
Pool (outdoor) swimming area only	SF	4,653	N
Beach	LF	240	N
Swimming Ponds	EA	0	N/A
Tennis CT	EA	8	N

BP N-432

B. PATRICK
CNET N-432
5-1-94

[5]Spaces designed for a particular use. A single building might contain several facilities, each of which should be listed separately.

* MOVIES NOT SHOWN AT THEATER. USED FOR MEETINGS, TRAINING AND SPECIAL EVENTS.

Features and Capabilities

C. Quality of Life (cont.)

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Volleyball CT (outdoor)	EA	1	N
Basketball CT (outdoor)	EA	1	N
Racquetball CT	EA	4	N
Golf Course	Holes	18	Y
Driving Range	Tee Boxes	12	Y
Gymnasium	SF	16,366	N ~~or N/A~~
Fitness Center	SF	17,387	Y
Marina (* see extras below)	Berths	20	Y
Stables (private org)	Stalls	0	N/A
Softball Fld (adult)	EA	2	N
Football Fld	EA	1	N
Soccer Fld	EA	1	N
Youth Center	SF	4,784	N
Baseball Field Youth	EA	2	N
* Storage Compound	Spaces	150	Y
* RV Park	Spaces	24	Y
* Gear Issue	SF	1500	Y
* Boat Sheds	EA	68	Y
* Fishing Pier	EA	2	N
* Boat House	SF	12,500	Y
* Bait Shack	SF	480	Y
* Pavilion	SF	8000	N
* Covered Picnic Pads	EA	5	N

Per John Cortez
HERRD CNST N-4433 2 May 94 AMB

3. *Is your library part of a regional interlibrary loan program?* **No**

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00216 08Sep94

Features and Capabilities

C. Quality of Life (cont.)

4. Base Family Support Facilities and Programs

a. Complete the following table on the availability of child care in a child care center on your base.

Age Category	Capacity (Children)	SF			Number on Wait List	Average Wait (Days)
		Adequate	Substandard	Inadequate		
0-12 Mos	8	*			31	210
12-24 Mos	10	*			26	360
24-36 Mos	14	*			22	360
3-5 Yrs	40	*			59	240
Pre-Kinder	20	880			59	240

*** Child Development Center is less than six years old with 11,166 sq ft of adequate space. The child capacity depends on room size and child age. The rooms can be reconfigured to accomodate changes.**

b. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

Facility type/code: **N/A**
What makes it inadequate?
What use is being made of the facility?
What is the cost to upgrade the facility to substandard?
What other use could be made of the facility and at what cost?
Current improvement plans and programmed funding:
Has this facility condition resulted in C3 or C4 designation on your BASEREP?

c. If you have a waiting list, describe what programs or facilities other than those sponsored by your command are available to accommodate those on the list. **Extensive resource and referral program with community programs.**

d. How many "certified home care providers" are registered at your base? **10 registered and 3 being processed.**

e. Are there other military child care facilities within 30 minutes of the base? State owner and capacity (i.e., 60 children, 0-5 yrs). **No**

Features and Capabilities

C. Quality of Life (cont.)

4. Base Family Support Facilities and Programs

a. Complete the following table on the availability of child care in a child care center on your base.

B. PATRICK
CNET N-432
5-2-94

Age Category	Capacity (Children)	SF			Number on Wait List	Average Wait (Days)
		* Adequate	Substandard	Inadequate		
0-6 Mos	8	Yes 324 SF			29	180
6-12 Mos	10	Yes 396 SF			21	210
12-24 Mos	10	Yes 740 SF			26	180
24-36 Mos	14	Yes 749 SF			22	180
3-5 Yrs	40	Yes 1,517 SF			59	240

b. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

Facility type/code: **N/A**
What makes it inadequate?
What use is being made of the facility?
What is the cost to upgrade the facility to substandard?
What other use could be made of the facility and at what cost?
Current improvement plans and programmed funding:
Has this facility condition resulted in C3 or C4 designation on your BASEREP?

c. If you have a waiting list, describe what programs or facilities other than those sponsored by your command are available to accommodate those on the list. **Family Home Care, Pre-Kindergarten, extensive resource and referral program with community programs.**

d. How many "certified home care providers" are registered at your base? **10 registered and 3 being processed.**

e. Are there other military child care facilities within 30 minutes of the base? State owner and capacity (i.e., 60 children, 0-5 yrs). **No, none.**

* SF MEASUREMENT IS FOR USABLE SPACE ONLY PER AGE GROUP. DOES NOT INCLUDE CLOSETS, HALLS, ETC. TOTAL FACILITY IS 11,166 SF.

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Features and Capabilities

C. Quality of Life (cont.)

f. Complete the following table for services available on your base. If you have any services not listed, include them at the bottom.

Service	Unit of Measure	Qty
Exchange	SF	12,000
Gas Station	SF	1,500
Auto Repair *	SF	3,100
Auto Parts Store	SF	800
Commissary **	SF	43,000
Mini-Mart (co-located)	SF	4,000
Package Store (co-located)	SF	same as above
Fast Food Restaurants *	EA	6
Bank/Credit Union	EA	2
Family Service Center	SF	6334
Laundromat	SF	500
Dry Cleaners	EA	1
ARC	PN	NOTE 1
Chapel	EA	2
FSC Classrm/Auditorium	PN	50

BPATRICK CNET N-432 5-1-94

SH CNET N4434 10/4/94

*Tire and A/C repair only.
** New facility under construction, Nov 94 completion.
NOTE 1: PART OF NAVAL HOSPITAL, CORPUS

5. Proximity of closest major metropolitan areas (provide at least three):

City	Distance (Miles)
Corpus Christi	Within City limits
San Antonio	137
Houston	227

* INCLUDES VENDOR OPERATED "WHAT-A-BURGER" FRANCHISE, MWR, NAVY EXCHANGE AND CIVILIAN NAFI FAST FOOD FACILITIES.
57-R (10/4/94)

00216 25Apr94

Features and Capabilities

C. Quality of Life (cont.)

f. Complete the following table for services available on your base. If you have any services not listed, include them at the bottom.

Service	Unit of Measure	Qty
Exchange	SF	12,000
Gas Station	SF	1,500
Auto Repair *	SF	3,100
Auto Parts Store	SF	800
Commissary **	SF	43,000
Mini-Mart (co-located)	SF	4,000
Package Store (co-located)	SF	same as above
Fast Food Restaurants *	EA	6
Bank/Credit Union	EA	2
Family Service Center	SF	6334
Laundromat	SF	500
Dry Cleaners	EA	1
ARC	PN	~~1~~ 22 *
Chapel	EA / PN	~~2~~ 2 / 250 ea
FSC Classrm/Auditorium	PN	50

BPATRICK CNET N-432 5-1-94

@ Naval Hospital (ARC) ~~SAMEAS~~ CNET N4433

*Tire and A/C repair only.
** New facility under construction, Nov 94 completion.

5. Proximity of closest major metropolitan areas (provide at least three):

City	Distance (Miles)
Corpus Christi	Within City limits
San Antonio	137
Houston	227

* INCLUDES VENDOR OPERATED "WHAT-A-BURGER" FRANCHISE, MWR, NAVY EXCHANGE AND CIVILIAN NAFI FAST FOOD FACILITIES.

Features and Capabilities

C. Quality of Life (cont.)

6. **Standard Rate VHA Data for Cost of Living:**

Paygrade	With Dependents	Without Dependents
E1	58.45	32.70
E2	58.45	~~35.76~~ 36.76
E3	46.36	34.16
E4	73.17	51.07
E5	80.92	56.50
E6	81.63	55.57
E7	104.18	72.37
E8	116.13	87.79
E9	98.15	74.51
W1	158.70	120.53
W2	139.12	109.12
W3	141.02	114.64
W4	154.29	136.80
O1E	80.85	59.97
O2E	78.30	62.43
O3E	115.02	97.31
O1	85.09	62.70
O2	78.70	61.51
O3	136.97	115.32
O4	94.24	81.95
O5	95.00	78.57
O6	104.99	86.90
O7	32.74	~~106.35~~ 26.60

Sd (HERTEL)
CNET N1A031

Sd (HERTEL)
CNET N1A031

Features and Capabilities

C. Quality of Life (cont.)

7. Off-base housing rental and purchase

(a) Fill in the following table for average rental costs in the area for the period 1 April 1993 through 31 March 1994.

Type Rental	Average Monthly Rent		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency	365	290	$35.00
Apartment (1-2 Bedroom)	490/600	340/440	$45.00
Apartment (3+ Bedroom)	850	515	$60.00
Single Family Home (3 Bedroom)	1000	550	$125.00
Single Family Home (4+ Bedroom)	1200	750	$150.00
Town House (2 Bedroom)	850	500	$70.00
Town House (3+ Bedroom)	1000	600	$100.00
Condominium (2 Bedroom)	850	500	$70.00
Condominium (3+ Bedroom)	1000	600	$100.00

Features and Capabilities

C. Quality of Life (cont.)

(b) What was the rental occupancy rate in the community as of 31 March 1994?

Type Rental	Percent Occupancy Rate
Efficiency	98%
Apartment (1-2 Bedroom)	96%
Apartment (3+ Bedroom)	98%
Single Family Home (3 Bedroom)	98%
Single Family Home (4+ Bedroom)	99%
Town House (2 Bedroom)	97%
Town House (3+ Bedroom)	98%
Condominium (2 Bedroom)	98%
Condominium (3+ Bedroom)	98%

(c) What are the median costs for homes in the area?

Type of Home	Median Cost
Single Family Home (3 Bedroom)	73,500
Single Family Home (4+ Bedroom)	121,400
Town House (2 Bedroom)	39,300
Town House (3+ Bedroom)	50,300
Condominium (2 Bedroom)	40,900
Condominium (3+ Bedroom)	50,450

Features and Capabilities

C. Quality of Life (cont.)

(d) For calendar year 1993, from the local MLS listings provide the number of 2, 3, and 4 bedroom homes available for purchase. Use only homes for which monthly payments would be within 90 to 110 percent of the E5 BAQ and VHA for your area.

Month	Number of Bedrooms		
	2	3	4+
January 94	3	9	0
February 94	8	13	0
March 94	3	10	0
April 93	6	20	1
May 93	15	14	0
June 93	13	17	3
July 93	8	18	0
August 93	14	23	1
September 93	11	12	1
October 93	12	13	0
November 93	5	9	0
December 93	8	14	1

(e) Describe the principle housing cost drivers in your local area.
Continued influx of business and military families has caused construction to lag behind need. Rental rates for apartments are lower than that required for new construction loan approval.

Features and Capabilities

C. Quality of Life (cont.)

8. For the top five sea intensive ratings in the principle warfare community your base supports, provide the following:

Rating	Number Sea Billets in the Local Area	Number of Shore billets in the Local Area
AB	0	14
AME	0	3
AM	0	21
AW	0	0
AO	0	9

9. Complete the following table for the average one-way commute for the five largest concentrations of military and civilian personnel living off-base.

Location	% Employees	Distance (mi)	Time(min)
Padre Island CORPC	10	6	15
Flour Bluff CORPC	40	3	10
Mid to South CORPC	40	10	20
North CORPC	5	30	40
Rural Area	5	70	80

Re Mike
Page

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Features and Capabilities

C. Quality of Life (cont.)

10. Complete the tables below to indicate the civilian educational opportunities available to service members stationed at the air station (to include any outlying fields) and their dependents:

(a) List the local educational institutions which offer programs available to dependent children. Indicate the school type (e.g. DODDS, private, public, parochial, etc.), grade level (e.g. pre-school, primary, secondary, etc.), what students with special needs the institution is equipped to handle, cost of enrollment, and for high schools only, the average SAT score of the class that graduated in 1993, and the number of students in that class who enrolled in college in the fall of 1994.

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment/ Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info
Corpus Christi ISD	Public	PK-12	Yes	42,374/$4,663	888/19.5	60%	CCISD
Flour Bluff Secondary & High	Public	1-8 & 9-12	Yes - All Handicaps served	$2,303	SAT 892 ACT 20.5	57%	AEIS Campus Profile
Archbishop Oscar Remora Middle	Parochial	6-8	**	$1700			
Bishop Garriga Middle	Public	6-8		$1900			
Central Catholic	Parochial	PK-5		$1500			
Christ the King	Parochial	PK-5		$1500			
Corpus Christi Academy	Parochial	9-12		$2000	SAT 1150/670 ACT 29/16	94%	
Holy Family	Parochial	PK-5		$1200			
Incarnate Word Academy High	Private	9-12		$3500	Not Available	96%	

Revise page

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Incarnate Word Academy Middle	**Private**	**6-8**		**$3000**			
Incarnate Word Academy Elementary	**Private**	**PK-5**		**$3200**			
Most Precious Blood	**Parochial**	**PK-6**		**$1500**			
Our Lady of Perpetual Help	**Parochial**	**PK-6**		**$1500**			
S. Cyril Methodist	**Parochial**	**PK-6**		**$1250**			
St. Patrick	**Parochial**	**PK-6**		**$2000**			
St. Pius X	**Parochial**	**PK-6**		**$1800**			

**** Special ED needs are available at some of the schools, to be determined by the counseling staff.**

Features and Capabilities

C. Quality of Life (cont.)

10. Complete the tables below to indicate the civilian educational opportunities available to service members stationed at the air station (to include any outlying fields) and their dependents:

(a) List the local educational institutions which offer programs available to dependent children. Indicate the school type (e.g. DODDS, private, public, parochial, etc.), grade level (e.g. pre-school, primary, secondary, etc.), what students with special needs the institution is equipped to handle, cost of enrollment, and for high schools only, the average SAT score of the class that graduated in 1993, and the number of students in that class who enrolled in college in the fall of 1994.

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment/ Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info
Corpus Christi ISD	Public	PK-12	Yes	* NONE ~~42,374/$4,663~~	888/19.5	60%	CCISD
Other school data will be sent as it is verified.							

* Public School - no cost to enroll

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Features and Capabilities

C. Quality of Life (cont.)

(b) List the educational institutions within 30 miles which offer programs off-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Del Mar	Day	* Yes	Yes	Yes	Yes	No
	Night	* Yes	Yes	Yes	Yes	No
Texas A&M CORPC	Day	No	No	Yes	Yes	Yes
	Night	No	NO	Yes	Yes	Yes
Texas A&M KINGSV	Day	No	NO	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes
	Day					
	Night					

*** GED preparation and testing.**

Features and Capabilities

C. Quality of Life (cont.)

(c) List the educational institutions which offer programs on-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Naval war College	Day	No	No	No	No	No
	Night	No	No	Yes	No	Yes
	Corres-pondence	No	No	No	No	No
Del Mar	Day	No	No	No	No	No
	Night	No	Yes	Yes	No	No
	Corres-pondence	No	No	No	No	No
Embry-Riddle	Day	No	No	No	No	No
	Night	No	No	Yes	Yes	Yes
	Corres-pondence	No	No	No	No	No
Park	Day	No	No	No	No	No
	Night	No	No	Yes	Yes	No
	Corres-pondence	No	No	No	No	No

Features and Capabilities

C. Quality of Life (cont.)

11. Spousal Employment Opportunities

Provide the following data on spousal employment opportunities.

Skill Level	Number of Military Spouses Serviced by Family Service Center Spouse Employment Assistance			Local Community Unemployment Rate
	* 1991	* 1992	1993	
Professional			70	
Manufacturing			3	
Clerical			41	
Service			56	
Other			5	**

* Historical data not available.
** 1993 Local community unemployment rate is 8.6% for all categories in 1993. Current rate is 10.1%.

12. Do your active duty personnel have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

Aviation medicine and general medicine services are readily available at the Naval Hospital. When there is a need for a particular specialist, i.e urology, the member must travel to San Antonio for an appointment. Long lead times are often required to obtain an appointment. When referred to local physicians there is usually no delay.

13. Do your military dependents have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

Routine dental care is readily available in the civilian community for dependents, emergency care is available from military dental sources. Specialized medical care is similar to that for active duty members.

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Features and Capabilities

C. Quality of Life (cont.)

14. Complete the table below to indicate the crime rate for your air station for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in NCIS - Manual dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on base regardless of whether the subject or the victim of that activity was assigned to or worked at the base; and 2) all reported criminal activity off base.

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)	0	0	0
Base Personnel - Military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
2. Blackmarket (6C)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
4. Postal (6L)	0	0	1
Base Personnel - military			1
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

14. Complete the table below to indicate the crime rate for your air station for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in NCIS - Manual dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on base regardless of whether the subject or the victim of that activity was assigned to or worked at the base; and 2) all reported criminal activity off base.

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)	0	0	0
Base Personnel - Military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
2. Blackmarket (6C)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
4. Postal (6L)	0	0	1
Base Personnel - military			1
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

14. Complete the table below to indicate the crime rate for your air station for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in NCIS - Manual dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on base regardless of whether the subject or the victim of that activity was assigned to or worked at the base; and 2) all reported criminal activity off base.

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)	0 - 155	0 - 178	0 - 214
Base Personnel - Military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
2. Blackmarket (6C)	0 - N/A	0 - N/A	0 - N/A
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)	0 - 2	0 - 1	0 - 1
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
4. Postal (6L)	0 - N/A	0 - N/A	1 - N/A
Base Personnel - military			1
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: Military or civilian status of subject and victim not available. First number is onbase data, second number is from Corpus Christi PD. N/A means data is not available. Numbers indicate incident or victum as applicable.

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Features and Capabilities

C. Quality of Life (cont.)

14. Complete the table below to indicate the crime rate for your air station for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in NCIS - Manual dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on base regardless of whether the subject or the victim of that activity was assigned to or worked at the base; and 2) all reported criminal activity off base.

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)	Data for this table is not yet available. Will forward as soon as the table can be completed.		
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
2. Blackmarket (6C)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
4. Postal (6L)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)	N/A	6	7
Base Personnel - military		4	6
Base Personnel - civilian		2	1
Off Base Personnel - military			
Off Base Personnel - civilian			
7. Larceny - Ordnance (6R)	N/A	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)	N/A	38	40
Base Personnel - military		18	33
Base Personnel - civilian		20	7
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)	N/A	6	7
Base Personnel - military		4	6
Base Personnel - civilian		2	1
Off Base Personnel - military			
Off Base Personnel - civilian			
7. Larceny - Ordnance (6R)	N/A	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)	N/A	38	40
Base Personnel - military		18	33
Base Personnel - civilian		20	7
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)	0 - N/A	0 - N/A	0 - N/A
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)	N/A - 5,829	6 - 5,246	7 - 4,600
Base Personnel - military		4	6
Base Personnel - civilian		2	1
Off Base Personnel - military			
Off Base Personnel - civilian			
7. Larceny - Ordnance (6R)	N/A - N/A	0 - N/A	0 - N/A
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)	N/A - N/A	38 - N/A	40 - N/A
Base Personnel - military		18	33
Base Personnel - civilian		20	7
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: Military or civilian status of subject and victim not available. First number is onbase data, second number is from Corpus Christi PD. N/A means data is not available. Numbers indicate incident or victum as applicable.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
7. Larceny - Ordnance (6R)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)	58	63	52
Base Personnel - military	N/A	37	28
Base Personnel - civilian	N/A	26	24
Off Base Personnel - military			
Off Base Personnel - civilian			
10. Wrongful Destruction (6U)	92	104	107
Base Personnel - military	N/A	44	73
Base Personnel - civilian	N/A	60	34
Off Base Personnel - military			
Off Base Personnel - civilian			
11. Larceny - Vehicle (6V)	0	0	1
Base Personnel - military			
Base Personnel - civilian			1
Off Base Personnel - military			
Off Base Personnel - civilian			
12. Bomb Threat (7B)	N/A	1	2
Base Personnel - military		N/A	N/A
Base Personnel - civilian		N/A	N/A
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)	58	63	52
Base Personnel - military	N/A	37	28
Base Personnel - civilian	N/A	26	24
Off Base Personnel - military			
Off Base Personnel - civilian			
10. Wrongful Destruction (6U)	92	104	107
Base Personnel - military	N/A	44	73
Base Personnel - civilian	N/A	60	34
Off Base Personnel - military			
Off Base Personnel - civilian			
11. Larceny - Vehicle (6V)	0	0	1
Base Personnel - military			
Base Personnel - civilian			1
Off Base Personnel - military			
Off Base Personnel - civilian			
12. Bomb Threat (7B)	N/A	1	2
Base Personnel - military		N/A	N/A
Base Personnel - civilian		N/A	N/A
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)	58 - 17,916	63 - 18,051	52 - 18,919
Base Personnel - military		37	28
Base Personnel - civilian		26	24
Off Base Personnel - military			
Off Base Personnel - civilian			
10. Wrongful Destruction (6U)	92 - N/A	104 - N/A	107 - 5,305
Base Personnel - military		44	73
Base Personnel - civilian		60	34
Off Base Personnel - military			
Off Base Personnel - civilian			
11. Larceny - Vehicle (6V)	0 - 1,546	0 - 1,750	1 - 1,672
Base Personnel - military			
Base Personnel - civilian			1
Off Base Personnel - military			
Off Base Personnel - civilian			
12. Bomb Threat (7B)	N/A - N/A	1 - 7	2 - 8
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: Military or civilian status of subject and victim not available. First number is onbase data, second number is from Corpus Christi PD. N/A means data is not available. Numbers indicate incident or victim as applicable.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
10. Wrongful Destruction (6U)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
11. Larceny - Vehicle (6V)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
12. Bomb Threat (7B)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (7G)	23	17	20
Base Personnel - military	N/A	10	8
Base Personnel - civilian	N/A	7	12
Off Base Personnel - military			
Off Base Personnel - civilian			
15. Death (7H)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (7G)	23	17	20
Base Personnel - military	N/A	10	8
Base Personnel - civilian	N/A	7	12
Off Base Personnel - military			
Off Base Personnel - civilian			
15. Death (7H)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)	0 - N/A	0 - N/A	0 - N/A
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (7G)	23 - 960	17 - 1,878	20 - 1,488
Base Personnel - military		10	8
Base Personnel - civilian		7	12
Off Base Personnel - military			
Off Base Personnel - civilian			
15. Death (7H)	0 - 33	0 - 30	0 - 34
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)	0 - 38	0 - 42	0 - 45
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: Military or civilian status of subject and victim not available. First number is onbase data, second number is from Corpus Christi PD. N/A means data is not available. Numbers indicate incident or victum as applicable.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (7G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
15. Death (7H)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)	3	4	2
Base Personnel - military	N/A	3	2
Base Personnel - civilian	N/A	1	
Off Base Personnel - military			
Off Base Personnel - civilian			
19. Perjury (7P)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (7R)	N/A	2	1
Base Personnel - military		1	
Base Personnel - civilian		1	1
Off Base Personnel - military			
Off Base Personnel - civilian			
21. Traffic Accident (7T)	64	73	82
Base Personnel - military	N/A	48	31
Base Personnel - civilian	N/A	25	51
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)	3	4	2
Base Personnel - military	N/A	3	2
Base Personnel - civilian	N/A	1	
Off Base Personnel - military			
Off Base Personnel - civilian			
19. Perjury (7P)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (7R)	N/A	2	1
Base Personnel - military		1	
Base Personnel - civilian		1	1
Off Base Personnel - military			
Off Base Personnel - civilian			
21. Traffic Accident (7T)	64	73	82
Base Personnel - military	N/A	48	31
Base Personnel - civilian	N/A	25	51
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)	3 - 1,005	4 - 1,290	2 - 1,708
Base Personnel - military		3	2
Base Personnel - civilian		1	
Off Base Personnel - military			
Off Base Personnel - civilian			
19. Perjury (7P)	0 - N/A	0 - N/A	0 - N/A
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (7R)	N/A - 595	2 - 509	1 - 509
Base Personnel - military		1	
Base Personnel - civilian		1	1
Off Base Personnel - military			
Off Base Personnel - civilian			
21. Traffic Accident (7T)	64 - 7,532	73 - 8,321	82 - 8,513
Base Personnel - military		48	31
Base Personnel - civilian		25	51
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: Military or civilian status of subject and victim not available. First number is onbase data, second number is from Corpus Christi PD. N/A means data is not available. Numbers indicate incident or victum as applicable.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
19. Perjury (7P)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (7R)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
21. Traffic Accident (7T)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
23. Indecent Assault (8D)	2	0	2
Base Personnel - military	N/A		1
Base Personnel - civilian	N/A		1
Off Base Personnel - military			
Off Base Personnel - civilian			
24. Rape (8F)	1	0	1
Base Personnel - military	N/A		
Base Personnel - civilian	N/A		1
Off Base Personnel - military			
Off Base Personnel - civilian			
25. Sodomy (8G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
23. Indecent Assault (8D)	2	0	2
Base Personnel - military	N/A		1
Base Personnel - civilian	N/A		1
Off Base Personnel - military			
Off Base Personnel - civilian			
24. Rape (8F)	1	0	1
Base Personnel - military	N/A		
Base Personnel - civilian	N/A		1
Off Base Personnel - military			
Off Base Personnel - civilian			
25. Sodomy (8G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: IAW CNET MSG R241800Z Jun 94, CNET Pensacola FL, NASCORPC Security Department records are the sole source of data. Off Base crimes not recorded. N/A means data is not available.

Revised page

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)	0 - 107	0 - 121	0 - 133
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
23. Indecent Assault (8D)	2 - 63	0 - 71	2 - 77
Base Personnel - military			1
Base Personnel - civilian			1
Off Base Personnel - military			
Off Base Personnel - civilian			
24. Rape (8F)	1 - 204	0 - 144	1 - 194
Base Personnel - military			
Base Personnel - civilian			1
Off Base Personnel - military			
Off Base Personnel - civilian			
25. Sodomy (8G)	0 - N/A	0 - N/A	0 - N/A
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOTE: Military or civilian status of subject and victim not available. First number is onbase data, second number is from Corpus Christi PD. N/A means data is not available. Numbers indicate incident or victum as applicable.

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Features and Capabilities

C. Quality of Life (cont.)

Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
23. Indecent Assault (8D)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
24. Rape (8F)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
25. Sodomy (8G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Features and Capabilities

D. Ability for Expansion

1. Does the operational infrastructure (e.g., parking apron, fuel and munitions storage, warehouse space, hangar space) provide capabilities for future expansion or change in mission?

Yes

2. What is the availability of off-station acreage for possible future air station development?

Nearly unlimited, undeveloped, privately owned, acreage is available within 20nm for airfield construction.

3. Provide the following information for air station infrastructure related facilities and functions. If these or other base infrastructure attributes may be a determining factor for base loading and expansion, provide additional comments and capacity measures as appropriate.

Type of Facility or Capability	On Base Capacity	Off Base Long Term Contract	Normal Steady State Load	Peak Demand
Electricity (KWH)	69,000 KWH *	25,000 KWH, CPL contract	24,000 KWH	25,000 KWH
Water (GPD)	3 MGPD + Storage	3 MGPD, City contract **	1.5 MGPD	3 MGPD
Sewage (GPD)	2.5 MGPD	None	.5 MGPD	1.2 MGPD
Natural Gas (CFH)	420 KCFH	420 KCFH, City contract **	42.5 KCFH	82 KCFH
Short Term Parking	325,849 SY 9,787 SY	All parking under CCN 852-10 POV parking at Waldron	240,000 SY	300,000 SY
Long Term Parking				
Steam LB/HR	174,600 LB/HR	No	14,700 LB/HR	130,000 LB/HR
Air CFM	10,300 CFM	No	1,100 CFM	6,100 CFM

* No on base generation capacity. Capacity limited by CPL transformer capability.
** System capacity can be expanded by increasing supply lines.

Replaced by new pg 73 dtd 28 Apr 94

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Features and Capabilities

D. Ability for Expansion

1. Does the operational infrastructure (e.g., parking apron, fuel and munitions storage, warehouse space, hangar space) provide capabilities for future expansion or change in mission?

Yes

2. What is the availability of off-station acreage for possible future air station development?

Nearly unlimited, undeveloped, privately owned, acreage is available within 20nm for airfield construction.

3. Provide the following information for air station infrastructure related facilities and functions. If these or other base infrastructure attributes may be a determining factor for base loading and expansion, provide additional comments and capacity measures as appropriate.

Type of Facility or Capability	On Base Capacity	Off Base Long Term Contract	Normal Steady State Load	Peak Demand
Electricity (KWH)	0	25000KWH	24000KWH	25000KWH
Water (GPD)	2.5MG Storage	1.5MGPD	1.5MGPD	3MGPD
Sewage (GPD)	2.5MGPD		500KGPD	
Natural Gas (CFH)	0	METERED	Monthly use	N/A
Short Term Parking	319,978 SY 9,787 SY	All parking under CCN 852-10 POV parking at Waldron	852-10	
Long Term Parking				
Steam	54,000LB/HR			
Air	103,000 CFM			

00216 28Apr94

Features and Capabilities

D. Ability for Expansion

1. Does the operational infrastructure (e.g., parking apron, fuel and munitions storage, warehouse space, hangar space) provide capabilities for future expansion or change in mission?

Yes

2. What is the availability of off-station acreage for possible future air station development?

Nearly unlimited, undeveloped, privately owned, acreage is available within 20nm for airfield construction.

3. Provide the following information for air station infrastructure related facilities and functions. If these or other base infrastructure attributes may be a determining factor for base loading and expansion, provide additional comments and capacity measures as appropriate.

Type of Facility or Capability	On Base Capacity	Off Base Long Term Contract	Normal Steady State Load	Peak Demand
Electricity (KWH)	45,000 KWH *	25,000 KWH, CPL contract	24,000 KWH	25,000 KWH
Water (GPD)	3 MGPD + Storage	3 MGPD, City contract **	1.5 MGPD	3 MGPD
Sewage (GPD)	2.5 MGPD	None	.5 MGPD	1.2 MGPD
Natural Gas (CFH)	420 KCFH	420 KCFH, City contract **	42.5 KCFH	82 KCFH
Short Term Parking	319,978 SY 9,787 SY	All parking under CCN 852-10 POV parking at Waldron	240,000 SY	300,000 SY
Long Term Parking				
Steam LB/HR	174,600 LB/HR	No	14,700 LB/HR	130,000 LB/HR
Air CFM	10,300 CFM	No	1,100 CFM	6,100 CFM

* No on base generation capacity. Capacity limited by CPL transformer capability.
** System capacity can be expanded by increasing supply lines.

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Features and Capabilities

D. Ability for Expansion (cont.)

4. Identify in the table below the real estate which has the potential to facilitate future development and for which you are the plant account holder. Complete a separate table for each individual site, i.e., main base, outlying airfields, special off-site areas, off base housing, etc. Unit of measure is acres.

Site Location: NASCORPC

Land Use	Total Acres	Developed[6]	Available for Development	
			Restricted[7]	Unrestricted
Operational	2119	1059	634	426
Training	N/A			
Research & Development	N/A			
Supply and Storage	67	67		
Admin	88	54	3	31
Housing	50	35		15
Recreational	239	239		
Navy Forestry Program	N/A			
Navy Agricultural Outlease Program	N/A			
Hunting/fishing Programs	N/A			
Other (Ordnance)	244	244		
TOTAL	2807	1698	637	472

[6] Developed land is that which currently has buildings, roads and utilities that prevent it from being further developed without demolition of existing infrastructure.

[7] This includes areas that are restricted for future development due to environmental constraints such as wet lands, landfills, archaeological sites, etc., and other restrictions such as ESQD arcs, HERO, HERP, HERF, AICUZ, ranges or cultural resources. Identify the reason for the restriction when providing the acreage in the above table.

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Features and Capabilities

D. Ability for Expansion (cont.)

4. Identify in the table below the real estate which has the potential to facilitate future development and for which you are the plant account holder. Complete a separate table for each individual site, i.e., main base, outlying airfields, special off-site areas, off base housing, etc. Unit of measure is acres.

Site Location: NALF WALDRON

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Land Use	Total Acres	Developed[8]	Available for Development	
			Restricted[9]	Unrestricted
Operational	536	100	36	400
Training	115		35	80
Research & Development				
Supply and Storage				
Admin				
Housing	165		35	130
Recreational	56	28		28
Navy Forestry Program				
Navy Agricultural Outlease Program	70		35	35
Hunting/fishing Programs				
Other				
TOTAL	942	128	141	673

[8] Developed land is that which currently has buildings, roads and utilities that prevent it from being further developed without demolition of existing infrastructure.

[9]This includes areas that are restricted for future development due to environmental constraints such as wet lands, landfills, archaeological sites, etc., and other restrictions such as ESQD arcs, HERO, HERP, HERF, AICUZ, ranges or cultural resources. Identify the reason for the restriction when providing the acreage in the above table.

Features and Capabilities

D. Ability for Expansion (cont.)

4. Identify in the table below the real estate which has the potential to facilitate future development and for which you are the plant account holder. Complete a separate table for each individual site, i.e., main base, outlying airfields, special off-site areas, off base housing, etc. Unit of measure is acres.

Site Location: NALF WALDRON

Land Use	Total Acres	Developed[8]	Available for Development	
			Restricted[9]	Unrestricted
Operational	533	100	33	400
Training	115		35	80
Research & Development				
Supply and Storage				
Admin				
Housing	165		35	130
Recreational	56	28		28
Navy Forestry Program				
Navy Agricultural Outlease Program	70		35	35
Hunting/fishing Programs				
Other				
TOTAL	~~942~~ 939	128	~~141~~ 138	673

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CNET N44331

[8] Developed land is that which currently has buildings, roads and utilities that prevent it from being further developed without demolition of existing infrastructure.

[9] This includes areas that are restricted for future development due to environmental constraints such as wet lands, landfills, archaeological sites, etc., and other restrictions such as ESQD arcs, HERO, HERP, HERF, AICUZ, ranges or cultural resources. Identify the reason for the restriction when providing the acreage in the above table.

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Features and Capabilities

D. Ability for Expansion (cont.)

4. Identify in the table below the real estate which has the potential to facilitate future development and for which you are the plant account holder. Complete a separate table for each individual site, i.e., main base, outlying airfields, special off-site areas, off base housing, etc. Unit of measure is acres.

Site Location: NALF CABANISS

Land Use	Total Acres	Developed[10]	Available for Development	
			Restricted[11]	Unrestricted
Operational	691	31	33	627
Training				
Research & Development				
Supply and Storage				
Admin				
Housing				
Recreational				
Navy Forestry Program				
Navy Agricultural Outlease Program	252	~~252~~ Ø	35	217
Hunting/fishing Programs				
Other				
TOTAL	943	~~283~~ 31	68	844

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[10] Developed land is that which currently has buildings, roads and utilities that prevent it from being further developed without demolition of existing infrastructure.

[11] This includes areas that are restricted for future development due to environmental constraints such as wet lands, landfills, archaeological sites, etc., and other restrictions such as ESQD arcs, HERO, HERP, HERF, AICUZ, ranges or cultural resources. Identify the reason for the restriction when providing the acreage in the above table.

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Features and Capabilities

D. Ability for Expansion (cont.)

4. Identify in the table below the real estate which has the potential to facilitate future development and for which you are the plant account holder. Complete a separate table for each individual site, i.e., main base, outlying airfields, special off-site areas, off base housing, etc. Unit of measure is acres.

Site Location: PEARY PLACE

Land Use	Total Acres	Developed[12]	Available for Development	
			Restricted[13]	Unrestricted
Operational				
Training				
Research & Development				
Supply and Storage				
Admin				
Housing	44			44
Recreational				
Navy Forestry Program				
Navy Agricultural Outlease Program				
Hunting/fishing Programs				
Other				
TOTAL	44			44

NOTE: The acreage restricted from development which is listed in the four previous sheets is categorized as follows: ESQD 408 acres, HERO 431 acres, AICUZ, wetlands and easements comprise the rest.

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[12] Developed land is that which currently has buildings, roads and utilities that prevent it from being further developed without demolition of existing infrastructure.

[13] This includes areas that are restricted for future development due to environmental constraints such as wet lands, landfills, archaeological sites, etc., and other restrictions such as ESQD arcs, HERO, HERP, HERF, AICUZ, ranges or cultural resources. Identify the reason for the restriction when providing the acreage in the above table.

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Features and Capabilities

E. Unique features

1. Identify any unique (one of a kind) features (function, equipment, ranges, etc.) possessed by this training air station. Please list each feature separately and provide a narrative explanation of the importance of the unique feature.

NASCORPC is well suited for mission expansion. As an aviation training facility it currently has available ramp space, hangar surplus, and excess suitable air space in the immediate proximity. The opportunity is available to expand or alter the mission of NASCORPC without significant infrastructural expense.

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ANNEX A: Berthing Capacity

1. For each **Pier/Wharf** at your facility list the following **structural characteristics**. Indicate the additional controls required if the pier is inside a Controlled Industrial Area or High Security Area. Provide the average number of days per year over the last eight years that the pier was out of service (OOS) because of maintenance, including dredging of the associated slip:

Table 1

Pier/ Wharf & Age[1]	CCN[2]	Moor Length (ft)	Design Dredge Depth[3] (ft) (MLLW)	Slip Width[4] (ft)	Pier Width (ft)[5]	CIA/Security Area? (Y/N)[6]	ESQD Limit[7]	# Days OOS for maint.
Pier/53	155-20	47	10		8	N	N/A	2
Pier/53	155-20	492	30		98	N	N/A	22
Dock/53	159-10	190	10		50	N	N/A	2

NOTE: Present depth is 10 for all piers.

[1]Original age and footnote a list of MILCON improvements in the past 10 years.
[2]Use NAVFAC P-80 for category code number.
[3]Comment if unable to maintain design dredge depth
[4]Water distance between adjacent finger piers.
[5]Indicate if RO/RO and/or Aircraft access. Indicate if pier structures limit open pier space.
[6]Describe the additional controls for the pier.
[7]Net explosive weight. List all ESQD waivers that are in effect with expiration date.

2. For each **Pier/Wharf** at your facility list the following **ship support characteristics**:

Table 2

Pier/ Wharf	OPNAV 3000.8 (Y/N)	Shore Pwr (KVA) & 4160V (KVA)	Comp. Air Press. & Capacity[1]	Potable Water (GPD)	CHT (GPD)	Oily Waste[1] (gpd)	Steam (lbm/hr & PSI)[2]	Fendering limits[3]
Pier								Unknown
Pier								19000lbs/in^2
Dock								Unknown

NOTE: No support services available at any piers.

[1]List only permanently installed facilities.
[2]Indicate if the steam is certified steam.
[3]Describe any permanent fendering arrangement limits on ship berthing.

3. For each **pier/wharf** listed above state today's normal **loading**, the maximum capacity for berthing, maximum capacity for weapons handling evolutions, and maximum capacity to conduct intermediate maintenance.

Table 3

Pier/ Wharf	Typical Steady State Loading[1]	Ship Berthing Capacity	Ordnance Handling Pier Capacity[2]	IMA Maintenance Pier Capacity[3]
Pier	None	Note 1	Note 2	None
Pier	None	Note 1 Note 5	Note 2	Note 3
Dock (2)	None - designed for seaplanes	Note 4	Note 2	None

NOTE 1: Not designed for ships only small crafts.

NOTE 2: Because of explosive radius and personnel locations, loading and offloading of certain types of ordnance is prohibited.

NOTE 3: Can be upgraded to perform maintenance.

NOTE 4: Designed for seaplanes.

NOTE 5: There are no small craft or other types of ships assigned to the air station. However, with permits and dredging the pier can berth Avenger Class minesweepers.

[1]Typical pier loading by ship class with current facility ship loading.

[2]List the maximum number of ships that can be moored to conduct ordnance handling evolutions at each pier/berth without berth shifts. Consider safety, ESQD and access limitations.

[3]List the maximum number of ships that can be serviced in maintenance availabilities at each pier without berth shifts because of crane, laydown, or access limitations.

4. For each **pier/wharf** listed above, based on Presidential Budget 1995 budgeted **infrastructure improvements in the Presidential Budget 1995 through FY 1997 and the BRAC-91 and BRAC-93 realignments**, state the expected normal **loading**, the maximum capacity for berthing, maximum capacity for weapons handling evolutions, and maximum capacity to conduct intermediate maintenance.

Table 4

Pier/ Wharf	Typical Steady State Loading[1]	Ship Berthing Capacity	Ordnance Handling Pier Capacity[2]	IMA Maintenance Pier Capacity[3]

NOTE: None of the piers or dock listed above are included in the Presidential Budget 1995 through FY 1997 and the BRAC 91 and BRAC 93 realignments.

[1]Typical pier loading by ship class with current facility ship loading.

[2]List the maximum number of ships that can be moored to conduct ordnance handling evolutions at each pier/berth without berth shifts. Consider safety, ESQD and access limitations.

[3]List the maximum number of ships that can be serviced in maintenance availabilities at each pier without berth shifts because of crane, laydown, or access limitations.

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5.a. How much pier space is required to **berth and support ancillary craft** (tugs, barges, floating cranes, etc.) currently at your facility? Indicate if certain piers are uniquely suited to support these craft.

Currently there are no ancillary craft assigned to this facility. Pier B-1 with necessary dredging and adding of ship support utilities can support these types of craft.

5.b. What is the average pier loading in ships per day due to **visiting ships** at your base. Indicate if it varies significantly by season.

There are no ships visiting this air station.

5.c. Given **no funding or manning limits**, what modifications or improvements would you make to the waterfront infrastructure to increase the cold iron ship berthing capacity of your installation? Provide a description, cost estimates, and additional capacity gained.

Dredge and extend Pier B-1 to accommodate up to 16 Avenger Class minesweepers. (double size of pier and dredge), approximately $63M. (National Construction Estimate - 1992)

5.d. Describe any **unique limits or enhancements** on the berthing of ships at specific piers at your base.

Dredging requirements.

00216 25Apr94

5.a. How much pier space is required to **berth and support ancillary craft** (tugs, barges, floating cranes, etc.) currently at your facility? Indicate if certain piers are uniquely suited to support these craft.

Currently there are no ancillary craft assigned to this facility. Pier B-1 with necessary dredging and adding of ship support utilities can support these types of craft.

5.b. What is the average pier loading in ships per day due to **visiting ships** at your base. Indicate if it varies significantly by season.

There are no ships visiting this air station.

5.c. Given **no funding or manning limits**, what modifications or improvements would you make to the waterfront infrastructure to increase the cold iron ship berthing capacity of your installation? Provide a description, cost estimates, and additional capacity gained.

Dredge and extend Pier B-1 to accommodate up to 16 Avenger Class minesweepers. (double size of pier and dredge), approximately $10M.

5.d. Describe any **unique limits or enhancements** on the berthing of ships at specific piers at your base.

Dredging requirements.

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00216 15Sep94

ANNEX B: Weapons and Munitions
Please answer the following questions if your activity performs any stowage or maintenance on any of the following ordnance commodities types:

ORDNANCE COMMODITY TYPES		
Mines	Threat	Other Threat
Torpedoes	Surface Launched	
Air Launched	Threat	

1. Ordnance Stowage and Support

1.1 Provide present and predicted inventories (coordinate with inventory control manager) and maximum rated capability of all stowage facilities at each weapons storage location controlled by this activity. In predicting the out year facility utilization, distribute overall ordnance compliment to the most likely configuration. The maximum rated capability is also an out year projection taking into account any known or programmed upgrades that may increase current stowage capacity. When listing stowage facilities, group by location (e.g. main base, outlying field, special area).

Table 1.1: **Total Facility Ordnance Stowage Summary**

	PRESENT INVENTORY		PREDICTED INVENTORY FY 2001		MAXIMUM RATED CAPABILITY	
Facility Number	TONS	SQ FT	TONS	SQ FT	TONS (NEW)	SQ FT
A-1	0.0	975	11.6	975	15	975
A-2	.13	768	13.6	768	15	768
A-3	.01	1200	17.3	1200	15	1200
A-4	.01	1200	.7	1200	15	1200
A-5	.08	140	1.2	140	7.5	140
A-6	.02	1000	5.4	1000	15	1000
A-7	.51	1000	7.3	1000	15	1000
A-11	.93	1250	6.2	1250	15	1250
A-14	0.0	800	0.0	800	15	800
TOTAL	1.69	8333	63.3	8333	127.5	8333

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ANNEX B: Weapons and Munitions

Please answer the following questions if your activity performs any stowage or maintenance on any of the following ordnance commodities types:

ORDNANCE COMMODITY TYPES		
Mines	Threat	Other Threat
Torpedoes	Surface Launched	
Air Launched	Threat	

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1.1 Provide present and predicted inventories (coordinate with inventory control manager) and maximum rated capability of all stowage facilities at each weapons storage location controlled by this activity. In predicting the out year facility utilization, distribute overall ordnance compliment to the most likely configuration. The maximum rated capability is also an out year projection taking into account any known or programmed upgrades that may increase current stowage capacity. When listing stowage facilities, group by location (e.g. main base, outlying field, special area).

Table 1.1: **Total Facility Ordnance Stowage Summary**

	PRESENT INVENTORY		PREDICTED INVENTORY FY 2001		MAXIMUM RATED CAPABILITY	
Facility Number	TONS	SQ FT	TONS	SQ FT	TONS (NEW)	SQ FT
A-1	.9	975	11.6	975	15	975
A-2	2.9	768	13.6	768	15	768
A-3	17.3	1200	17.3	1200	15	1200
A-4	.7	1200	.7	1200	15	1200
A-5	1.2	140	1.2	140	7.5	140
A-6	.1	1000	5.4	1000	15	1000
A-7	2.0	1000	7.3	1000	15	1000
A-11	6.2	1250	6.2	1250	15	1250
A-14	0.0	800	0.0	800	15	800
TOTAL	31.3	8333	63.3	8333	127.5	8333

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ANNEX B: Weapons and Munitions (continued)

1.2 For each Stowage facility identified in question 1.1 above, identify the type of facility (specify if "igloo", "box", etc.). Identify the type of ordnance commodity (from the list above) which are currently stowed in that facility and all other ordnance types which, given existing restrictions, could be physically accommodated in that stowage facility. Specify below if such additional accommodation would require a modification of the facility (e.g. enhanced environmental controls, ESQD waiver).

- Identify the reason(s) for which this ordnance is stored at your facility from the following list: own activity use (training); own activity use (operational stock); Receipt/Segregation/ Stowage/Issue (RSSI); transhipment/awaiting issue; deep stow (war reserve); deep stow (awaiting Demil); other. Explain each "other" entry in the space provided, including ordnance stowed which is not a DON asset.

Table 1.2: **Total Facility Ordnance Stowage Summary**

Facility Number/Type	Currently Stowed Commodity Type(s)	Reason for Stowage at your Activity	* Commodity Type(s) Which Can Be Stowed
A-1	High explosives	Temp storage	
A-2	High explosives	Temp storage	
A-3	Small arms	War reserve deep stow/Coast Guard	
A-4	Det cord	CCAD	
A-5	High explosives	USMC	
A-6	High explosives	NAS/USCS/USMC	
A-7	Pyrotechnic	JTF6/USMC/SAR	
A-11	Pyrotechnic	NAS/USCG/USMC /MIU-108/CBU-407	
A-14	Empty inert	NAS disposals	

*** Any compatible item (OP5, Vol II)**

Additional comments:

ANNEX B: Weapons and Munitions (continued)

1.2 For each Stowage facility identified in question 1.1 above, identify the type of facility (specify if "igloo", "box", etc.). Identify the type of ordnance commodity (from the list above) which are currently stowed in that facility and all other ordnance types which, given existing restrictions, could be physically accommodated in that stowage facility. Specify below if such additional accommodation would require a modification of the facility (e.g. enhanced environmental controls, ESQD waiver).

- Identify the reason(s) for which this ordnance is stored at your facility from the following list: own activity use (training); own activity use (operational stock); Receipt/Segregation/ Stowage/Issue (RSSI); transhipment/awaiting issue; deep stow (war reserve); deep stow (awaiting Demil); other. Explain each "other" entry in the space provided, including ordnance stowed which is not a DON asset.

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Facility Number/Type	Currently Stowed Commodity Type(s)	Reason for Stowage at your Activity	* Commodity Type(s) Which Can Be Stowed
A-1	High explosives	Temp storage	
A-2	High explosives	Temp storage	
A-3	Small arms	War reserve deep stow/Coast Guard	
A-4	Det cord	Corpus Christi Army	
A-5	High explosives	USMC (Training)	
A-6	High explosives	NAS/Customs A/C USMC	
A-7	Pyrotechnic	JTF6/USMC/Sar support	
A-11	Pyrotechnic		
A-14	Empty inert		

*** Any compatible item (OP5, Vol II)**

Additional comments:

ANNEX B: Weapons and Munitions (continued)

1.3 Identify the rated category, rated NEW and status of ESQD arc for each stowage facility listed above.

Table 1.3: **Facility Rated Status**

Facility Number / Type	Hazard Rating (1.1-1.4)	Rated NEW	ESQD Arc		
			Established (Y / N)	Waiver (Y / N)	Waiver Expiration Date
A-1	1.3	30,000	Y	N	None
A-2	1.3	30,000	Y	N	None
A-3	1.4	30,000	Y	N	None
A-4	1.4	30,000	Y	N	None
A-5	1.1	15,000	Y	N	None
A-6	1.1	30,000	Y	N	None
A-7	1.3	30,000	Y	N	None
A-11	1.3	30,000	Y	N	None
A-14	1.3	30,000	Y	N	None

ANNEX B: Weapons and Munitions (continued)

1.4 Identify any restrictions which prevent maximum utilization of your facilities. If restrictions are based on facility conditions, specify reason, the cost to correct the deficiency, and identify any programmed projects that will correct the deficiency and/or increase your capability.

A-1 Roof that leaks - project covered by contract through NATO funding.

A-14 Inside magazine rust - covered by contract through NATO funding.

ESQD Arc may exceed the limits of 1.1 or 1.2 ammunition if it was stored in A-1, A-2, A-3 or A-4 causing Shields Park, the All Hands pool and part of the Bay Club to require waiver approval or closure.

1.5 Identify if your activity performs any of the following functions on any of the ordnance commodities previously listed. Technical support includes planning, financial, administrative, process engineering and SOP support. Within each related function identify each ordnance commodity type for which you provide these services and the total Direct Labor Man Hours (DLMHs) expended (FY 1994); identify only those DLMHs expended by personnel under your command.

Table 1.5: **Related Ordnance Support**

Related Functions	Performed? (Y / N)	Type of Commodity	DLMHs
Maintenance (specify level)	N	N/A	N/A
Testing	N	N/A	N/A
Manufacturing	N	N/A	N/A
Outload	Y	Small Arms	4960
Technical Support	N	N/A	N/A

00216 25Apr94

ANNEX C: Maintenance, Repair and Equipment Expenditures

1. Identify the facility and equipment values for your activity in the Table below, as executed and budgeted for the period requested. As applied herein:

- Maintenance of Real Property (MRP) is the budgetary term gathering the expenses or budget requirements for facility work and includes recurring maintenance, major repairs and minor construction (non-MILCON) inclusive of all Major Claimant funded Special Projects. It is the amount of funds spent on or budgeted for maintenance and repair of real property assets to maintain the facility in satisfactory operating condition. For purposes of this Data Call, MRP includes all M1/R1 and M2/R2 expenditures.

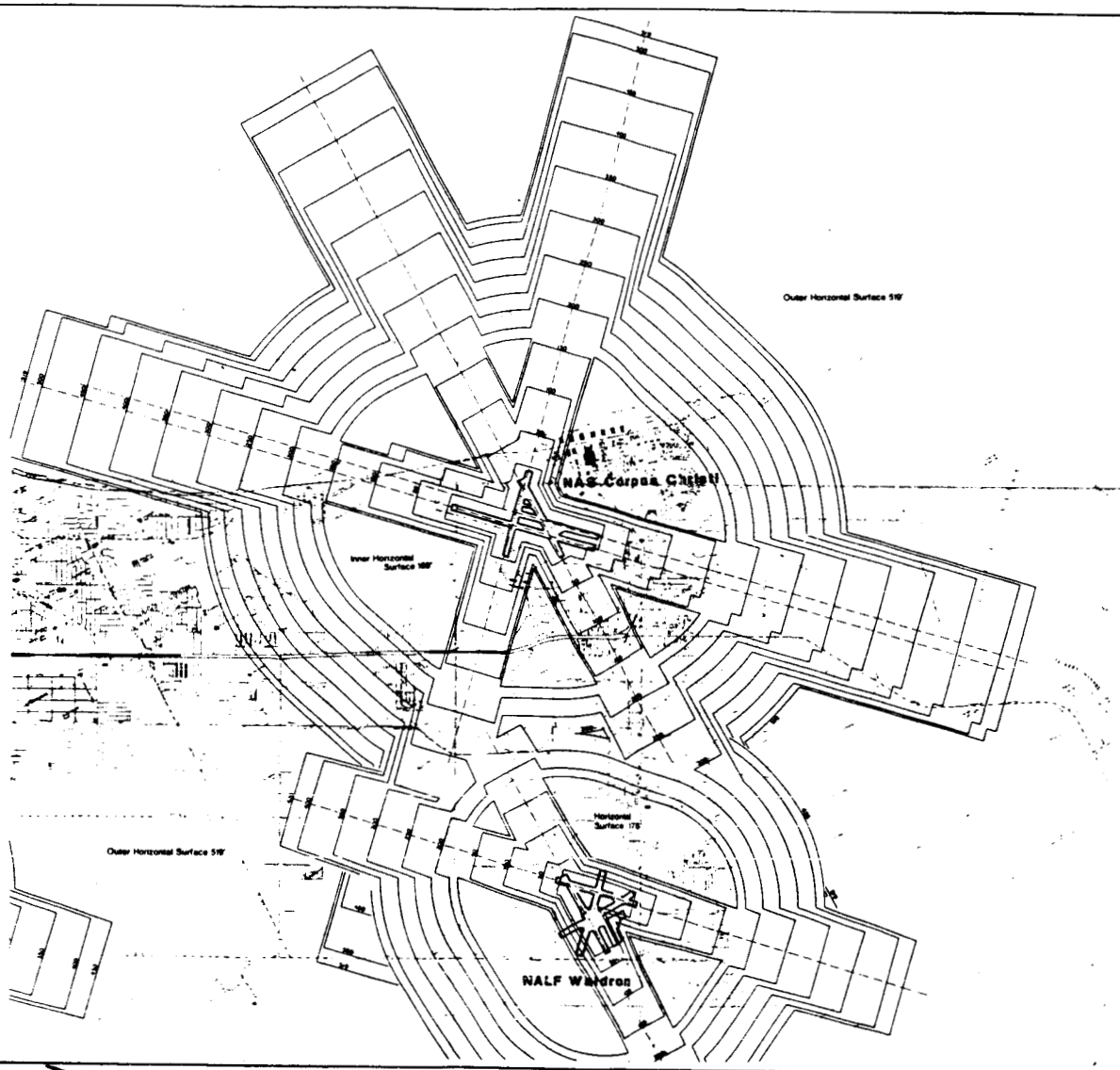
- Current Plant Value (CPV) referred to incorporates Class 2 Real Property and is the hypothetical dollar amount required to replace a Class 2 facility in kind at today's dollars (e.g.: the cost today to replace an existing wood frame barracks with another barracks, also wood frame).

- Acquisition Cost of Equipment (ACE) reports the total cumulative acquisition cost of all "Personal Property" equipment which includes the cost of installed equipments directly related to mission execution (such as lab test equipment). Class 2 installed capital equipment which is integral to the facility should not be reported as ACE.

Table A: Expenditures and Equipment Values

FY	MRP ($ K)	CPV ($ K)	ACE ($ K)
1986	10,133 ~~4,619~~	818,134	19,205
1987	12,084 ~~6,895~~	831,689	19,400
1988	9,965 ~~7,490~~	863,826	21,894
1989	8,813 ~~7,024~~	879,148	22,995
1990	12,198 ~~8,351~~	908,678	23,111
1991	9,778 ~~8,226~~	917,112	23,150
1992	7,257 ~~7,266~~	932,986	23,594
1993	14,751 ~~8,158~~	976,589	23,431
1994	16,499 ~~9,480~~	976,589	23,431
1995	11,187 ~~9,932~~	976,589	23,431
1996	13,947 ~~9,932~~	976,589	23,431
1997	8,184 ~~9,932~~	976,589	23,431

CNATRA NG2 N3



NORTH

Scale in statute miles

0 1/2 1 2 3

0 .5 1 2 3 4

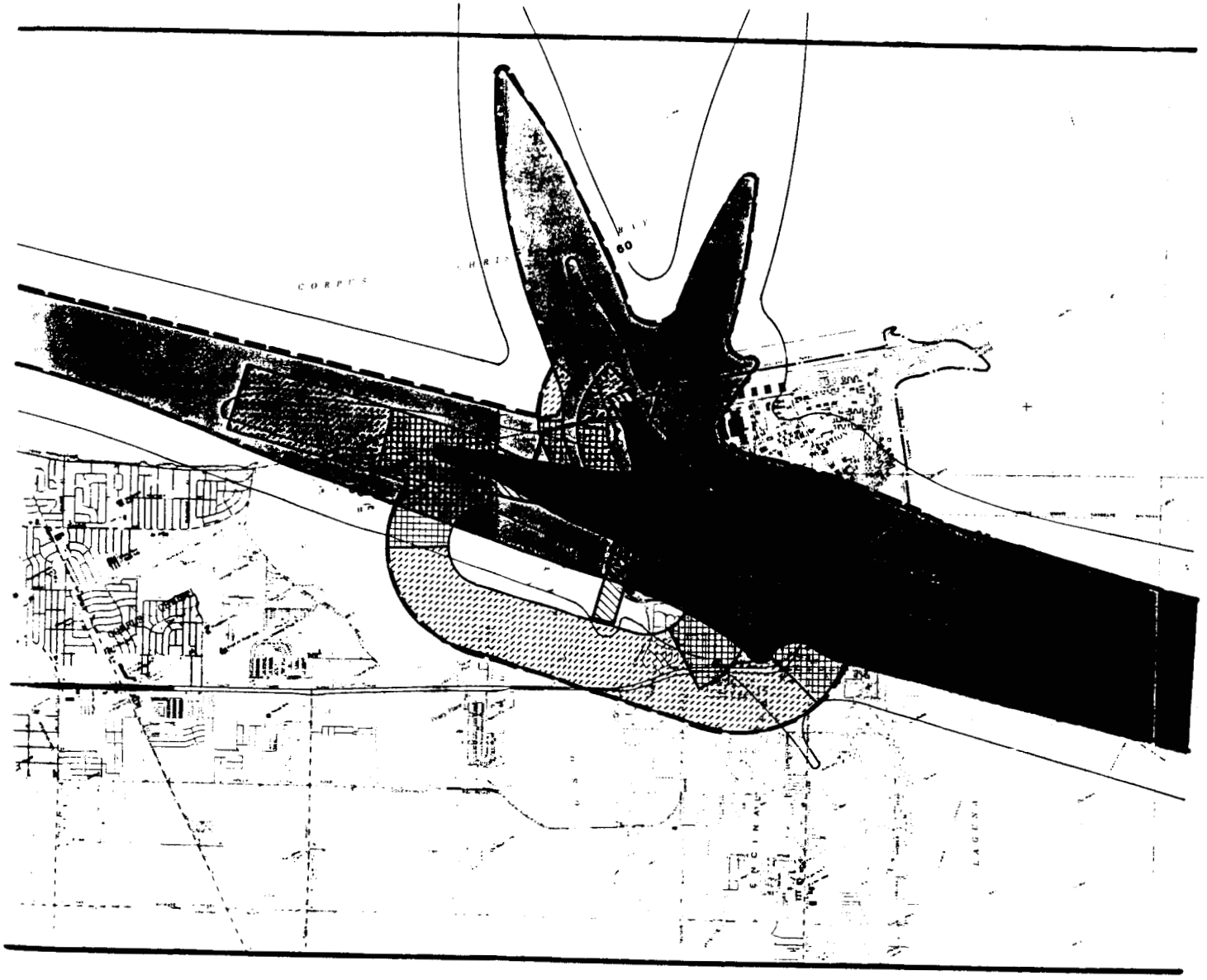
Scale in kilometers

Naval Air Station
Corpus Christi, Texas

Imaginary surfaces

figure IV

ATTACHMENT 1



Legend

Noise Zones

1 2 3

Accident Potential Zones

1

2

1

CZ

AICUZ Footprint

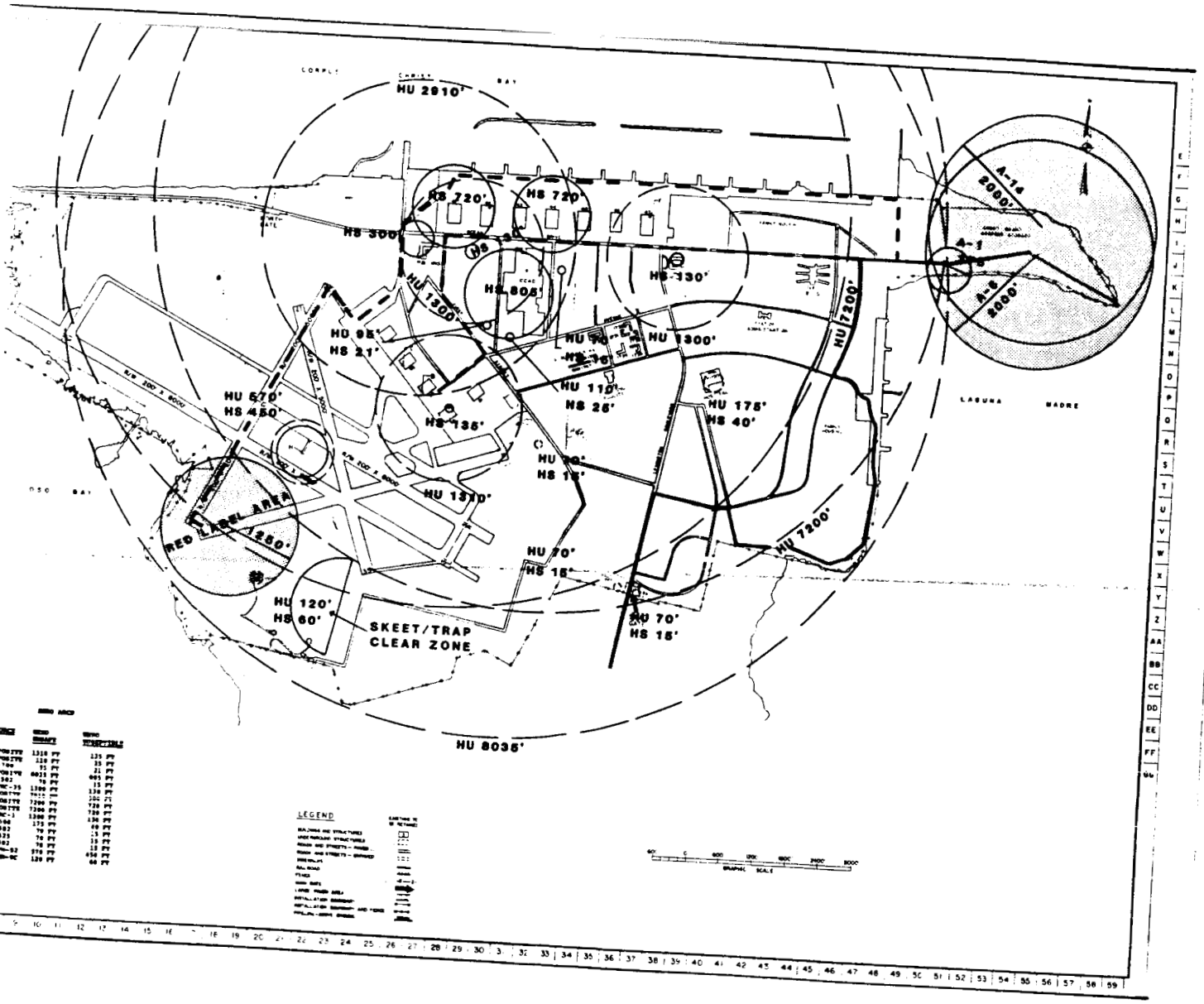
Naval Air Station
Corpus Christi, Texas

AICUZ

Scale in Thousands of Feet

0 2 4 6 8 10

NORTH



Legend

Explosives handling anc

EMR: HU--hero unsafe
HS--hero suscepti

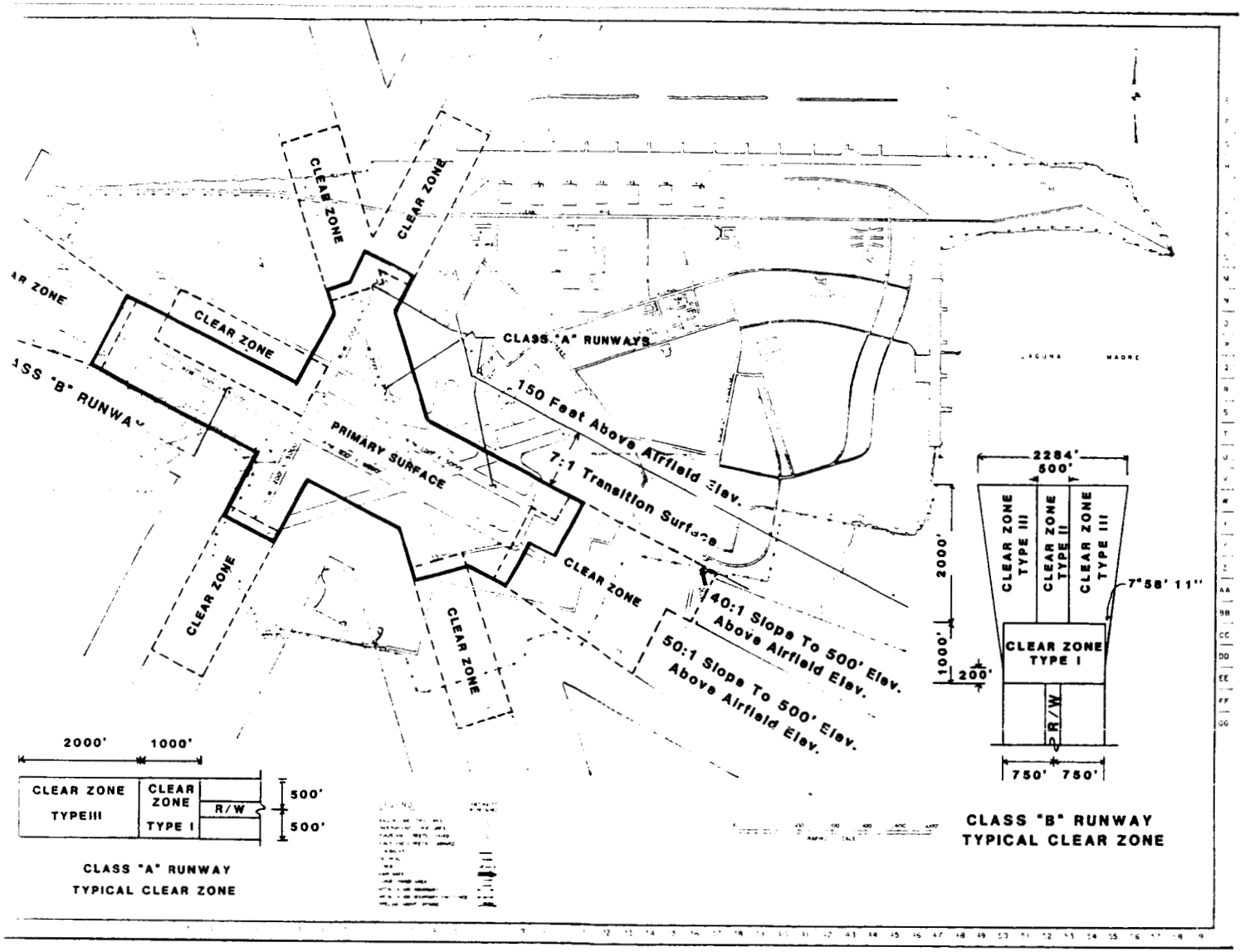
Limited Route

Primary Route

Naval Air Station
Corpus Christi, Texas

Safety distance arcs

fig



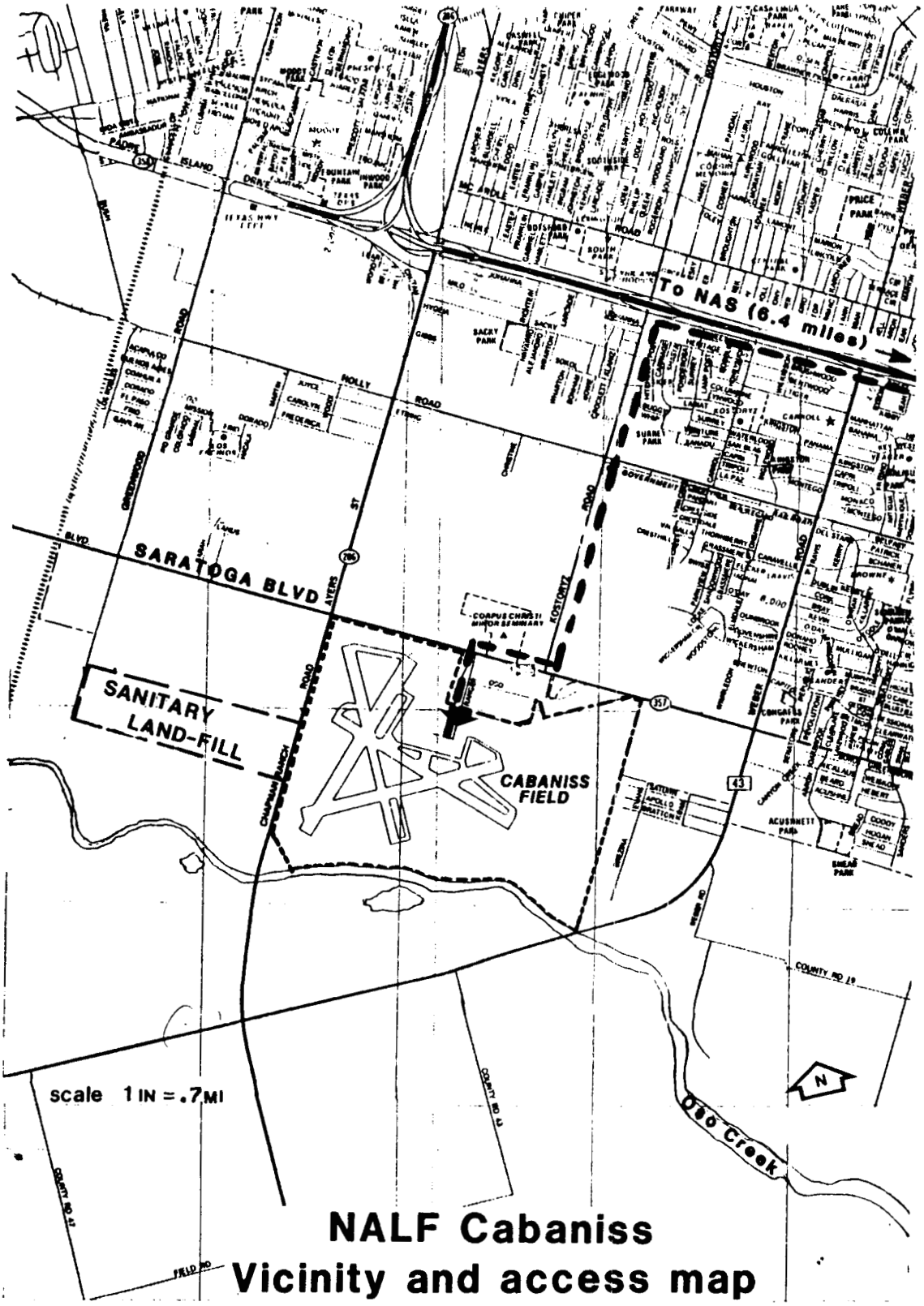
Legend

Primary Surface (19

Clear Zone

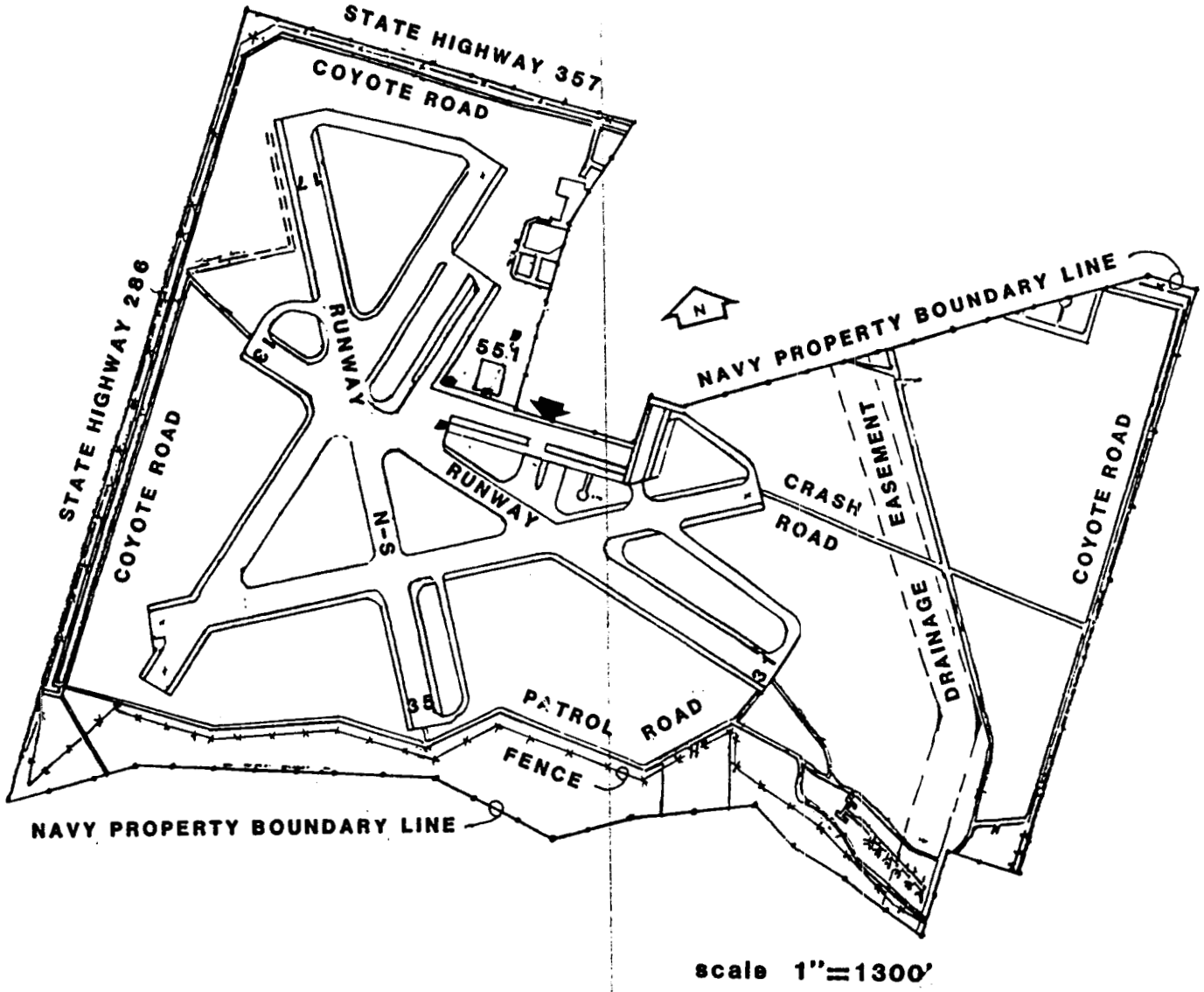
Naval Air Station
Corpus Christi, Texas

Airfield Safety Con



NALF Cabaniss
Vicinity and access map

figure VI-2



NALF CABANISS
Installation Map

figure VI-1

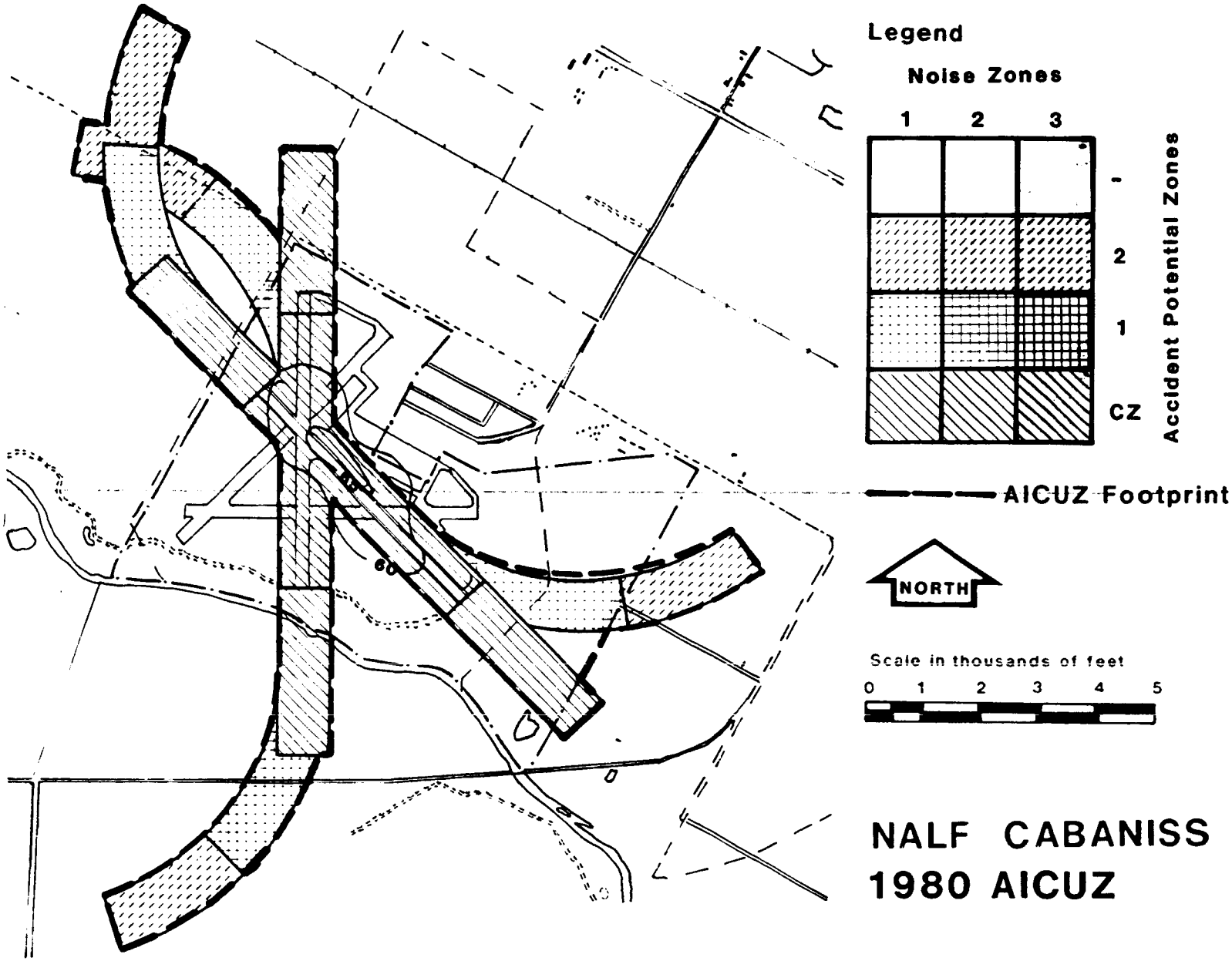
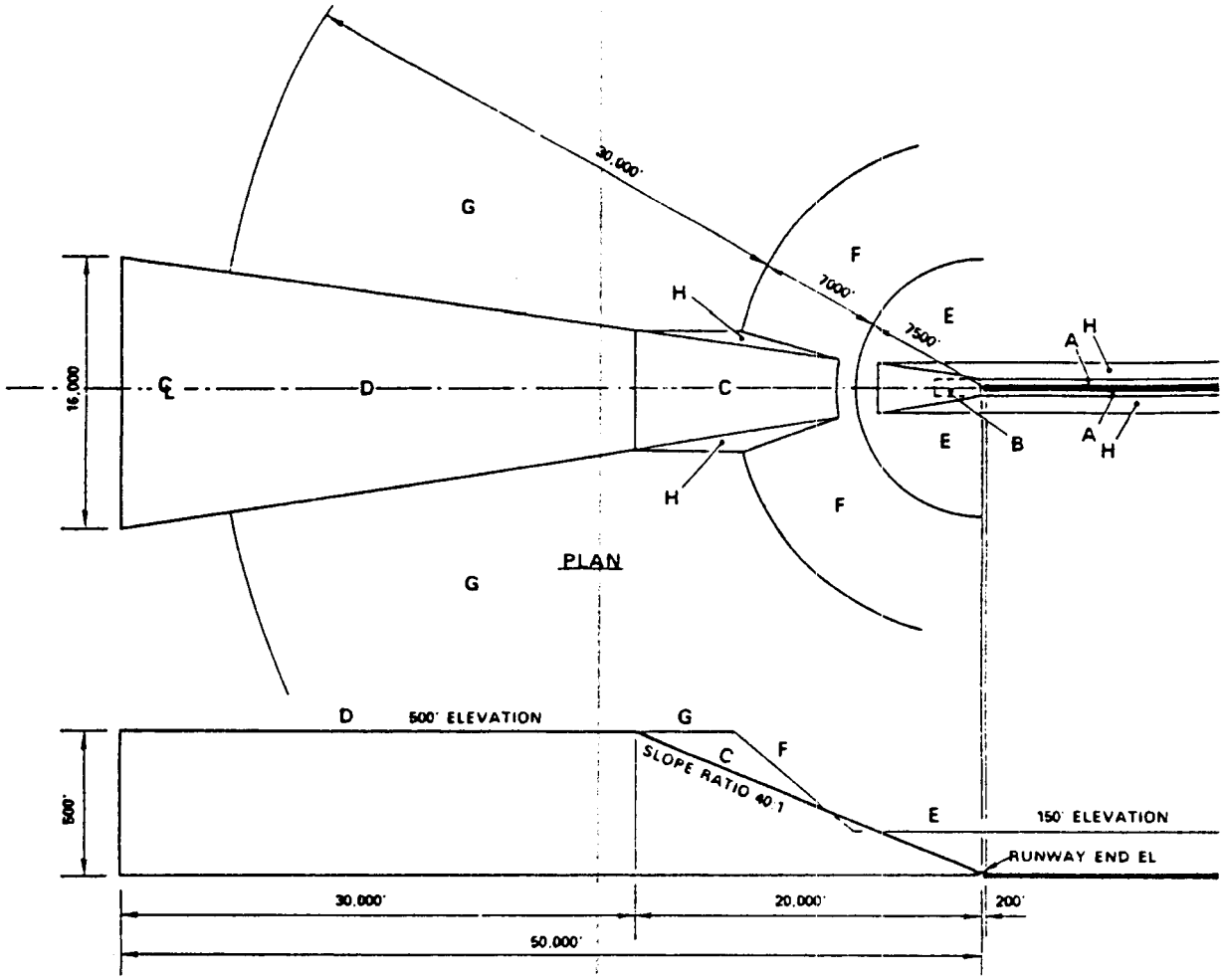
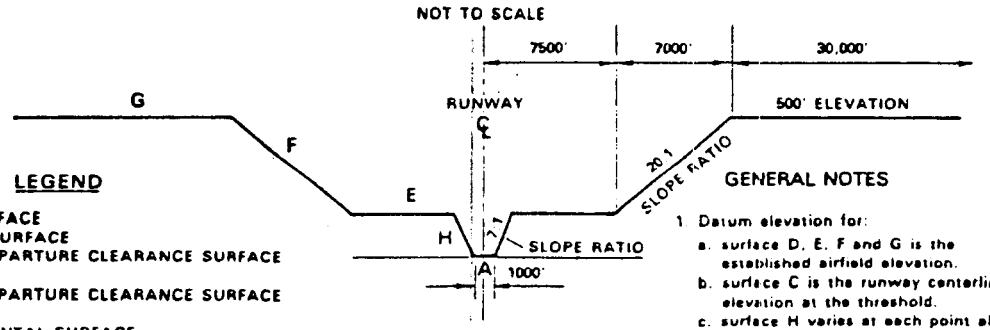

Legend
Noise Zones
1
2
3
-
2
1
CZ
Accident Potential Zones
AICUZ Footprint
NORTH
Scale in thousands of feet
0
1
2
3
4
5
60
NALF CABANISS
1980 AICUZ

figure VI-6





LEGEND

- A PRIMARY SURFACE
- B CLEAR ZONE SURFACE
- C APPROACH-DEPARTURE CLEARANCE SURFACE (SLOPE)
- D APPROACH-DEPARTURE CLEARANCE SURFACE (HORIZONTAL)
- E INNER HORIZONTAL SURFACE
- F CONICAL SURFACE
- G OUTER HORIZONTAL SURFACE
- H TRANSITIONAL SURFACE

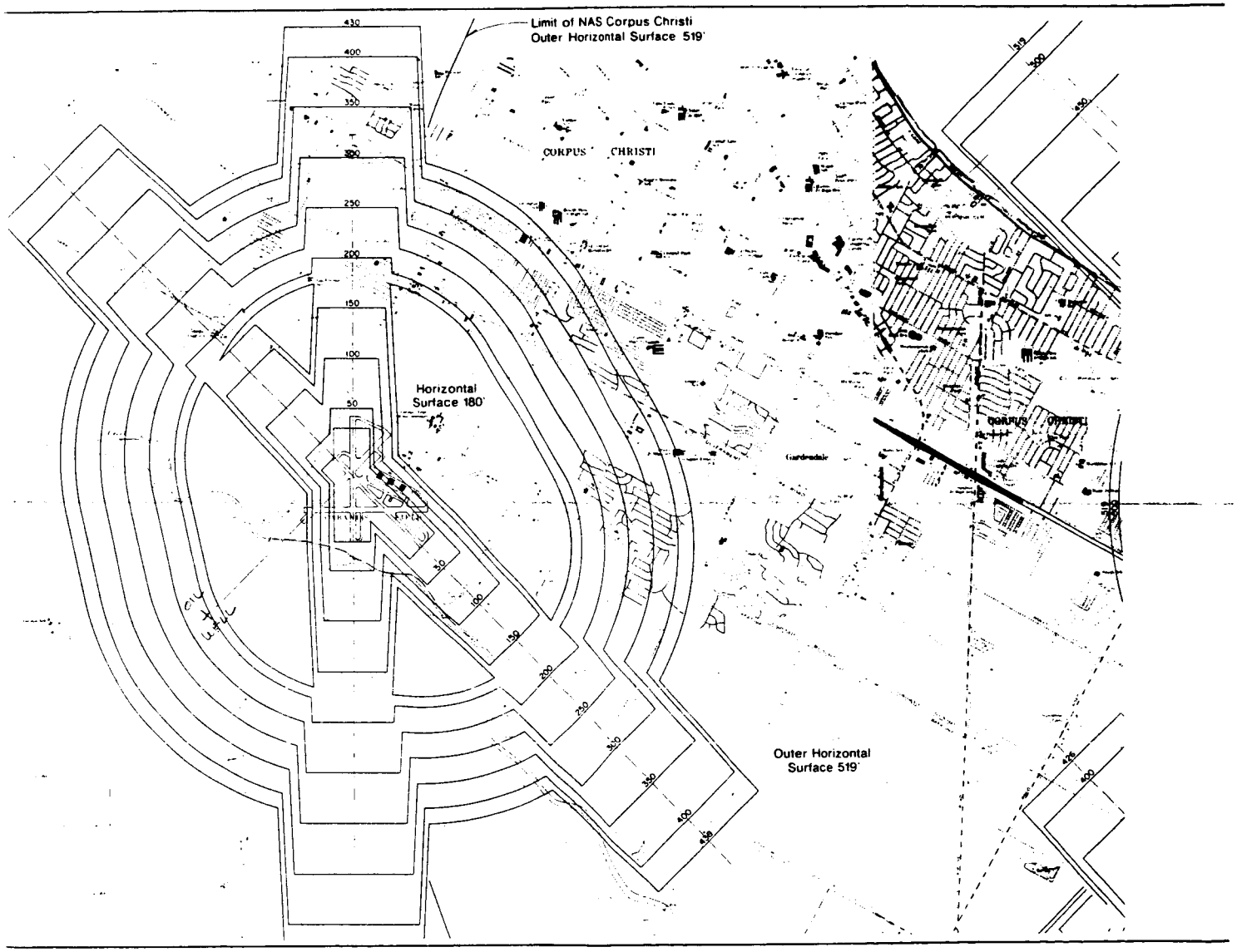
GENERAL NOTES

1. Datum elevation for:
   a. surface D, E, F and G is the established airfield elevation.
   b. surface C is the runway centerline elevation at the threshold.
   c. surface H varies at each point along the runway centerline.
2. The intersections shown on the plan are for the case of a level runway.

CLASS A RUNWAY-AIRSPACE (PLAN & SECTIONS)

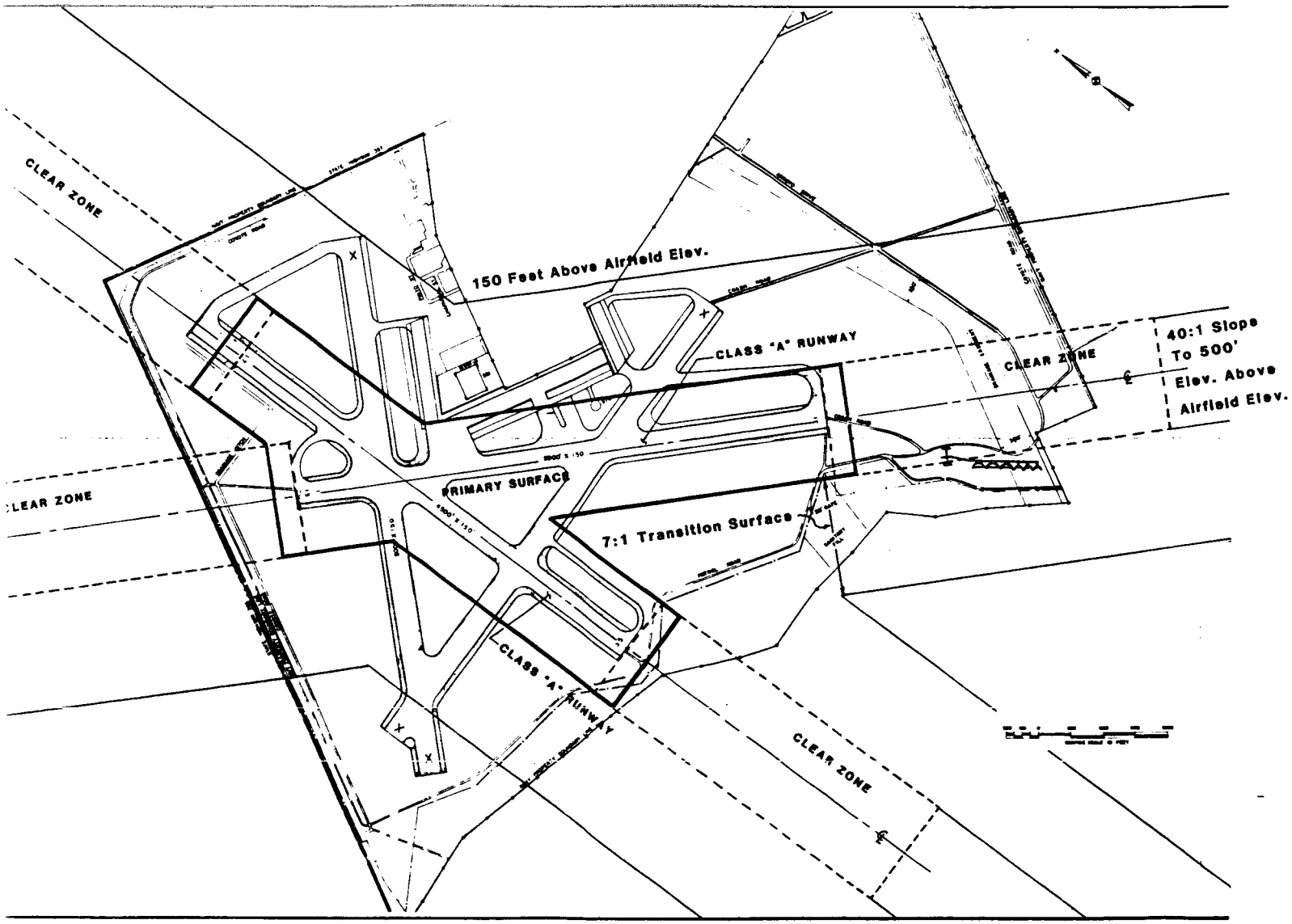
Imaginary Surfaces

figure VI-7



Naval Air Station
Corpus Christi, Texas

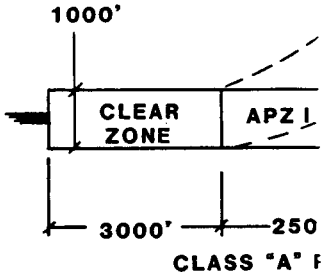
NALF Cabaniss
Imaginary surfaces



Legend

Primary Surface (:

Clear Zone

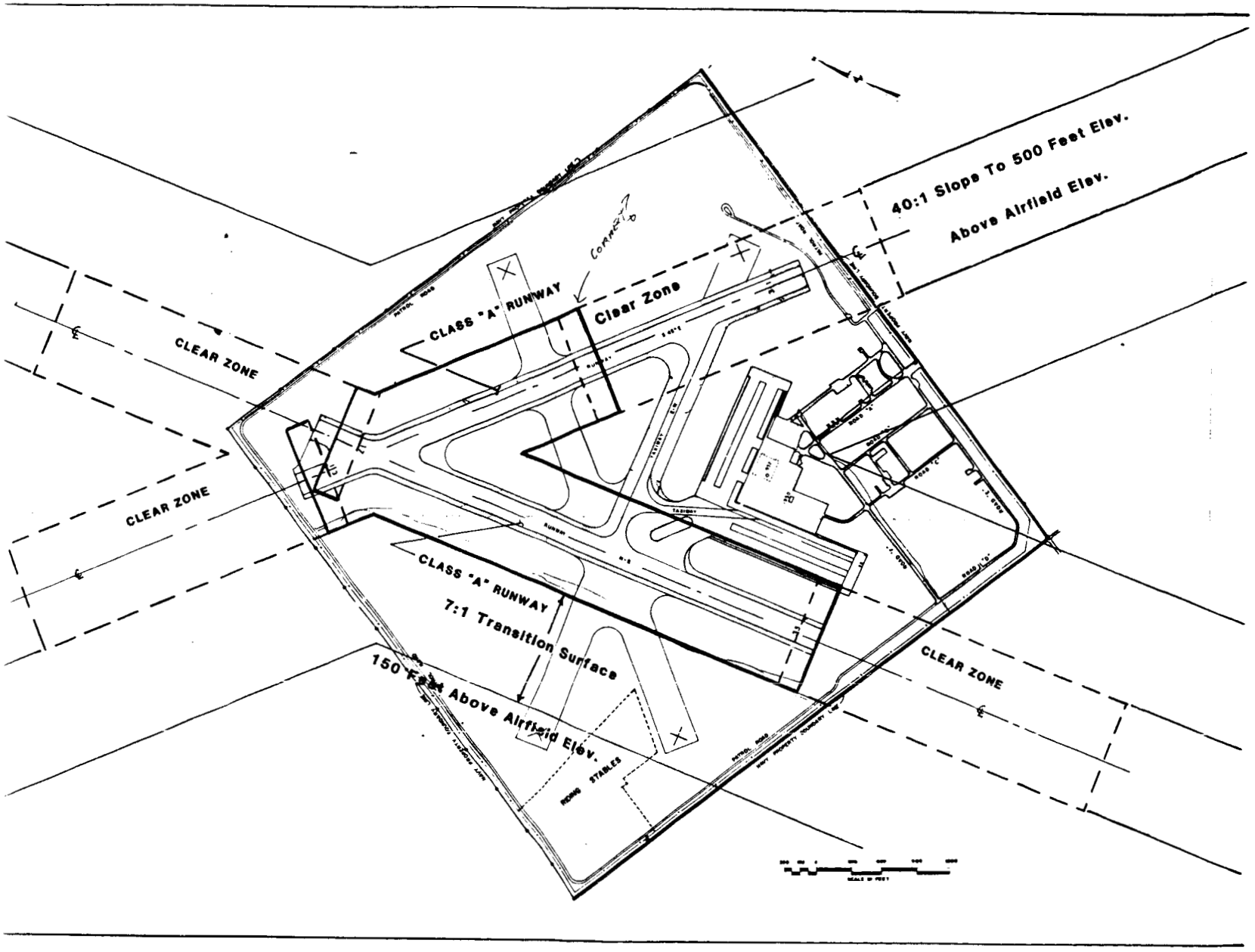


NOTE:

(1) APZ I and II may be with flight shadow.

Naval Air Station Corpus Christi, Texa

NALF Cabaniss Airfield Safety Co



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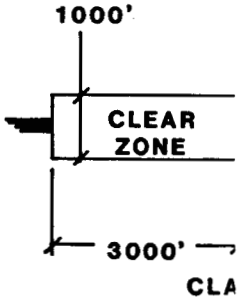
Primary

Clear Zc



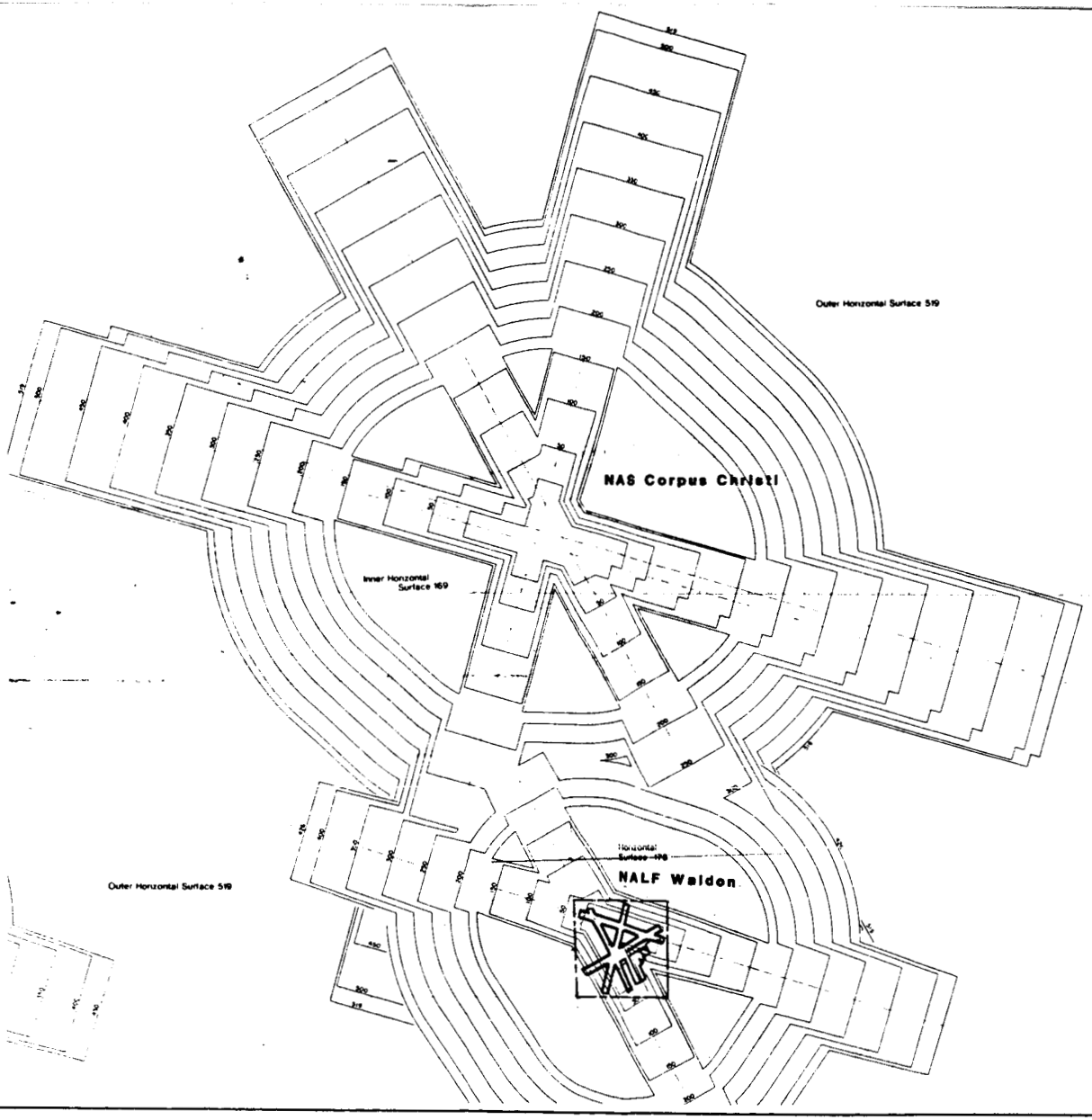
NOTE:

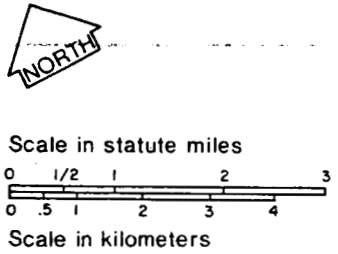
(1) APZ I and
with flight

Naval Air Stati
Corpus Christi,

NALF Waldrc

Airfield Safe





Naval Air Station
Corpus Christi, Texas

NALF Waldron
Imaginary surfaces

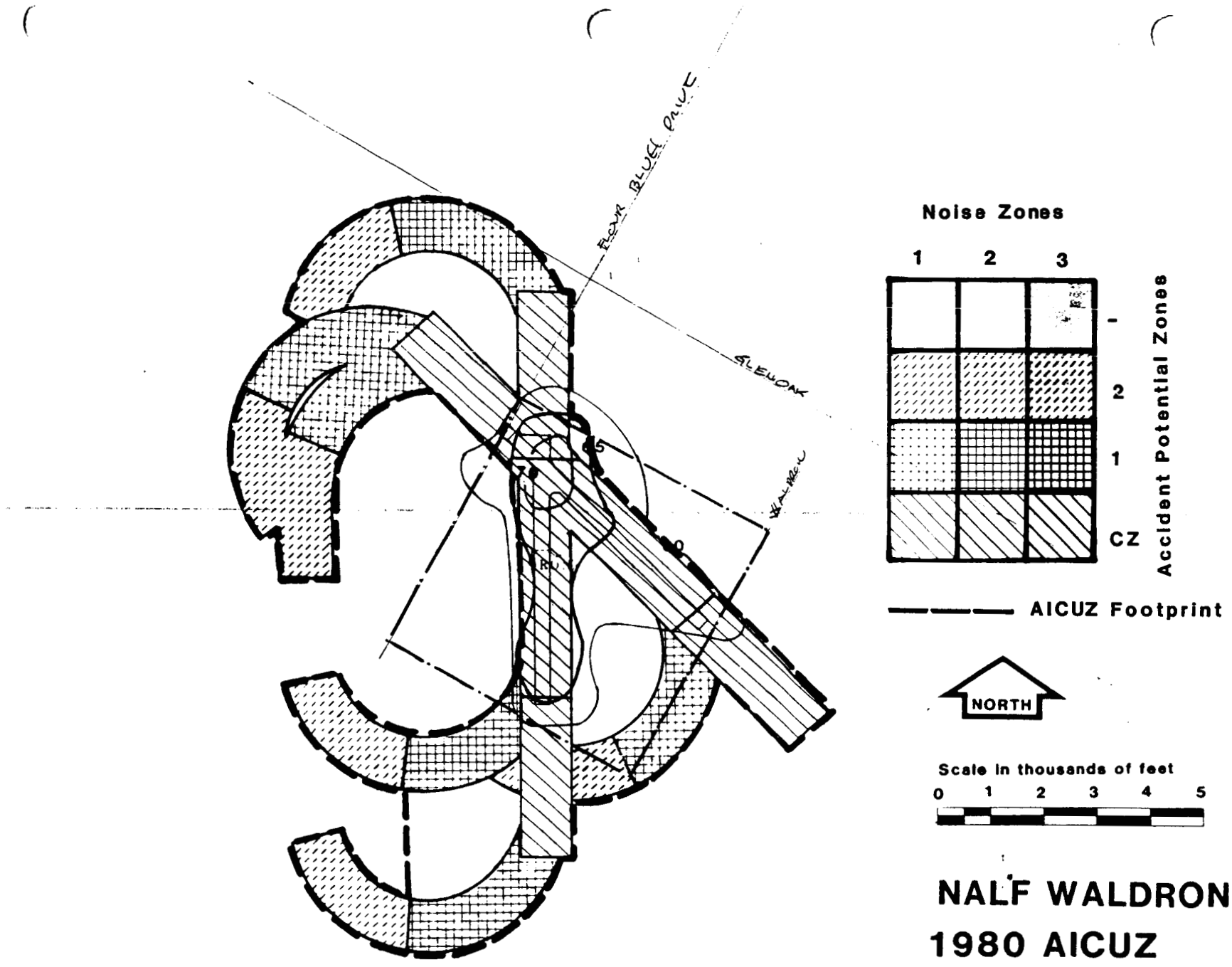
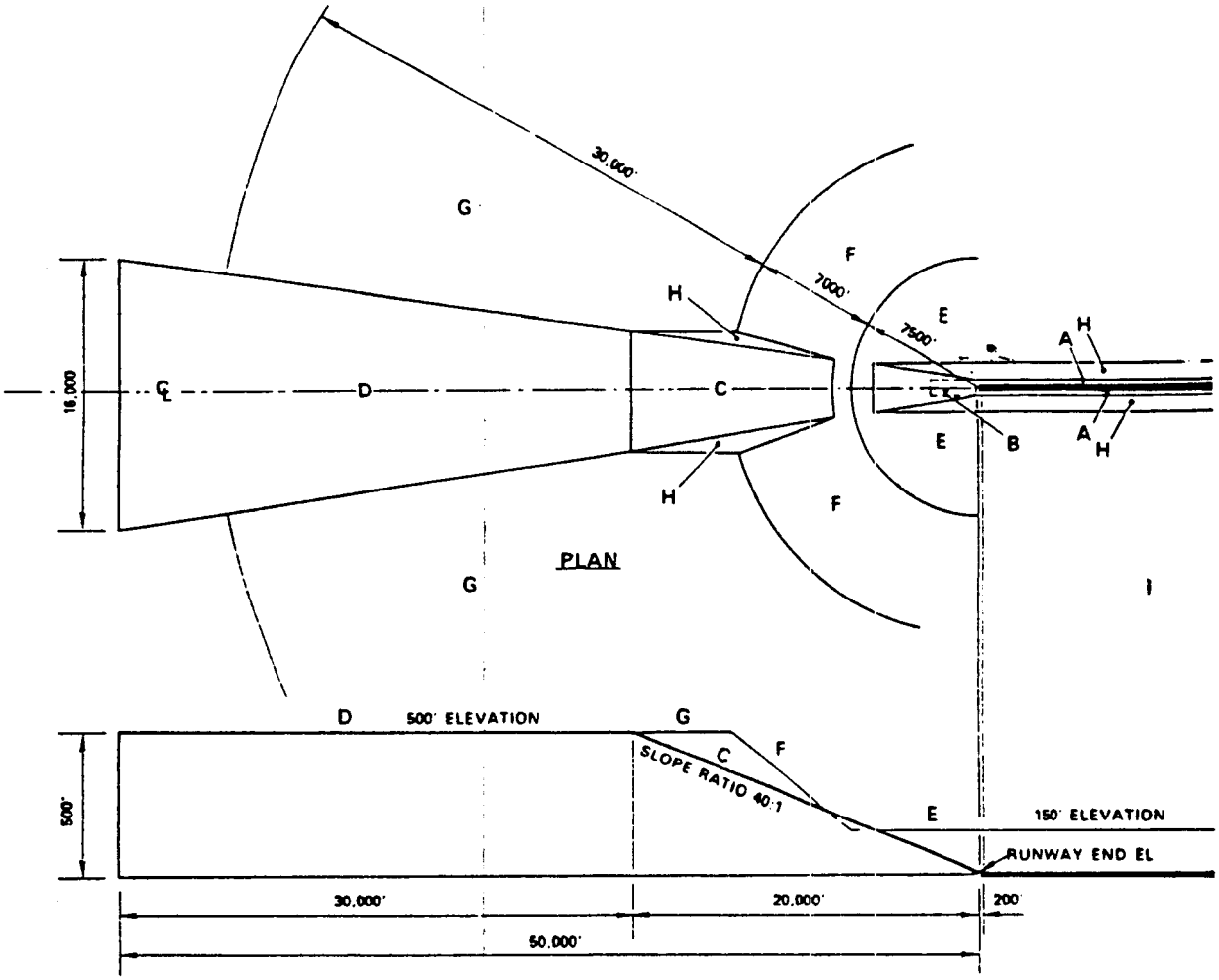
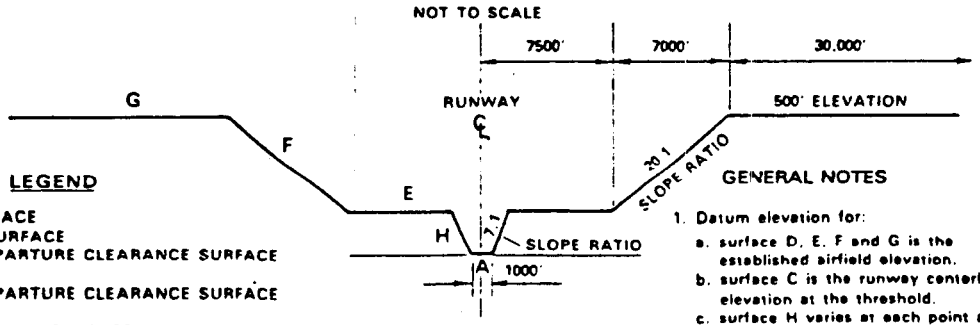

Noise Zones
1
2
3
-
2
1
CZ
Accident Potential Zones
AICUZ Footprint
NORTH
Scale in thousands of feet
0
1
2
3
4
5
NALF WALDRON
1980 AICUZ

figure VII-5



LONGITUDINAL SECTION

NOT TO SCALE



TRANSVERSE SECTION

NOT TO SCALE

LEGEND

- A PRIMARY SURFACE
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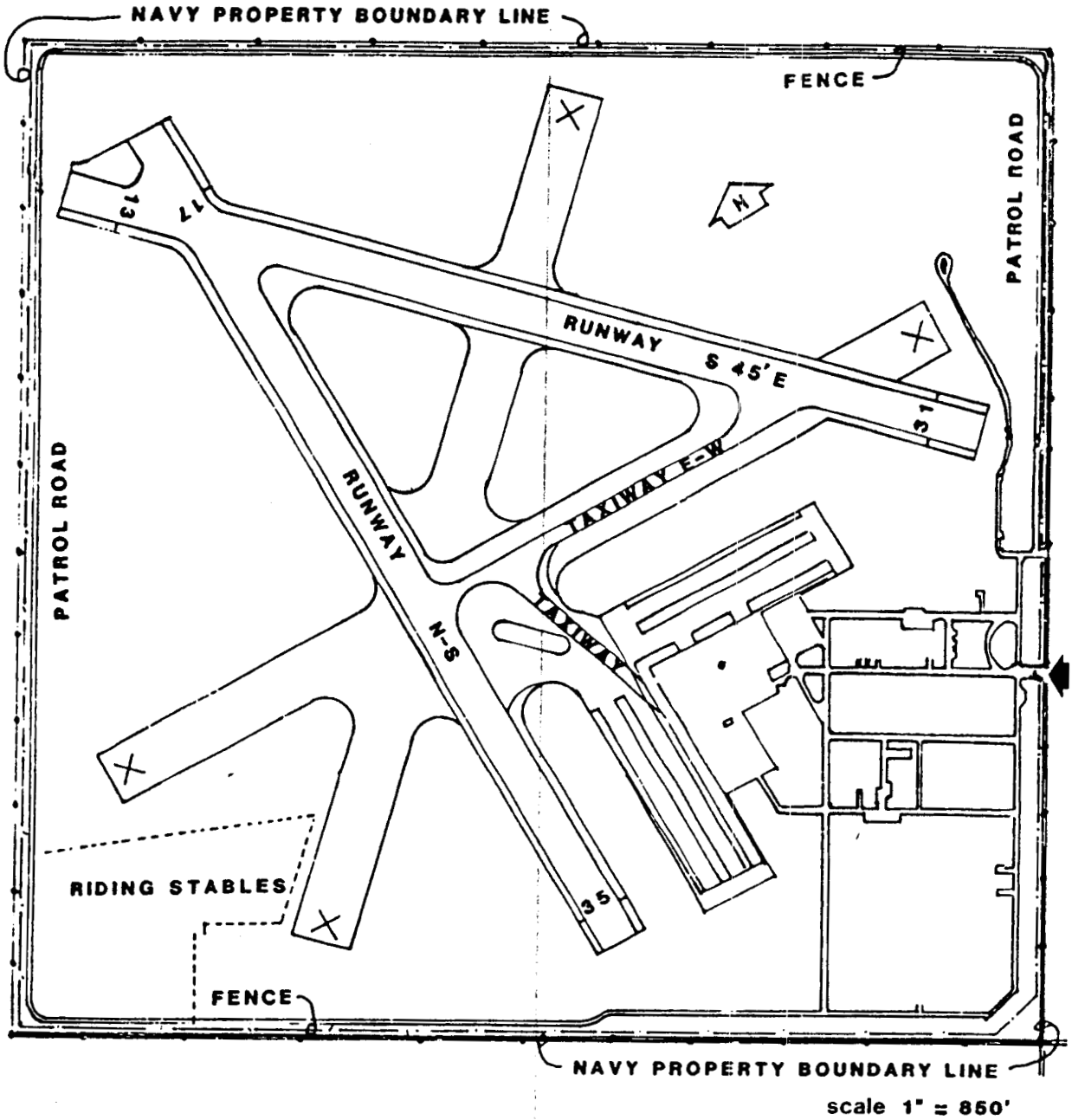
CLASS A RUNWAY-AIRSPACE (PLAN & SECTIONS)

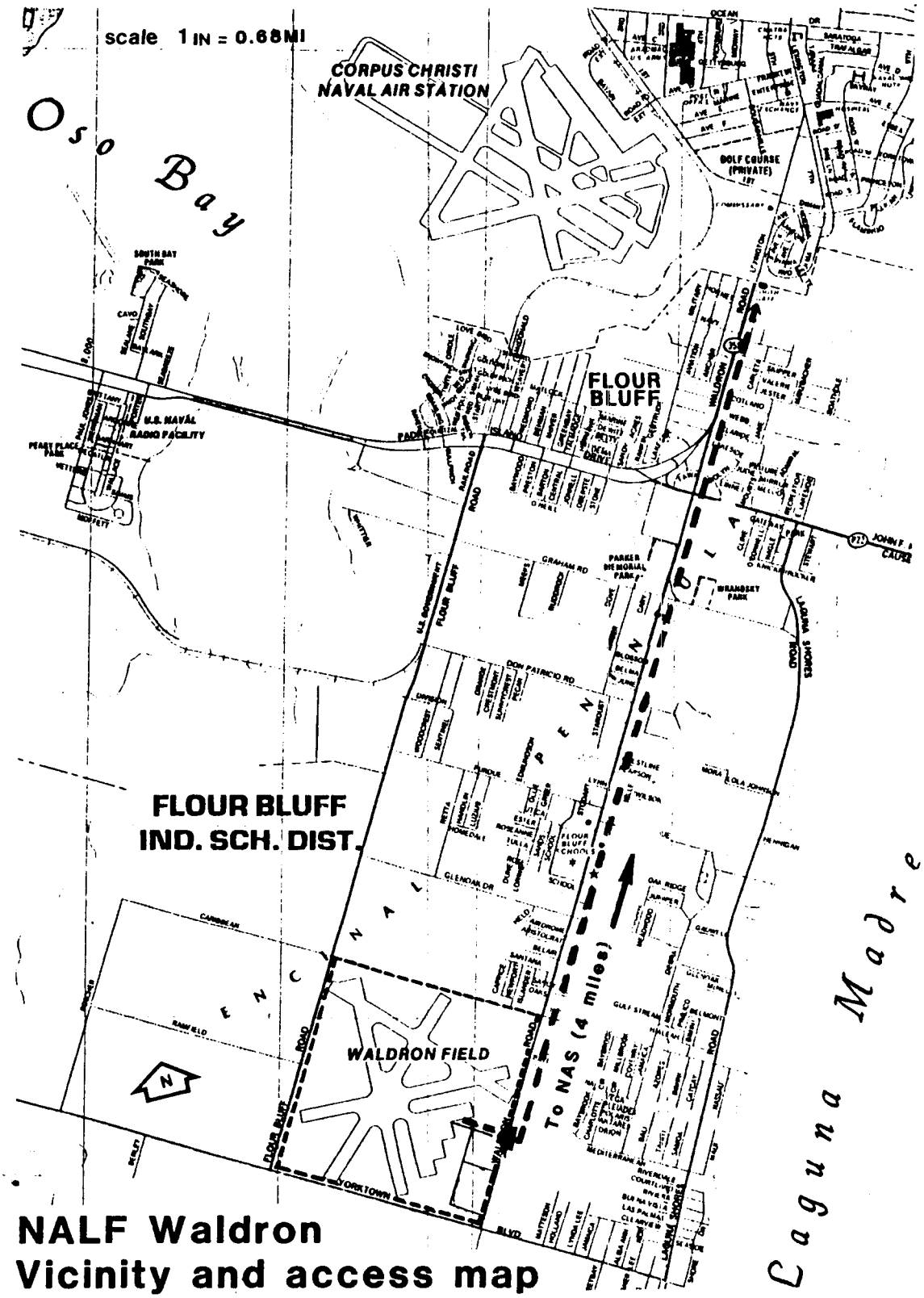
Imaginary Surfaces

figure VII-6



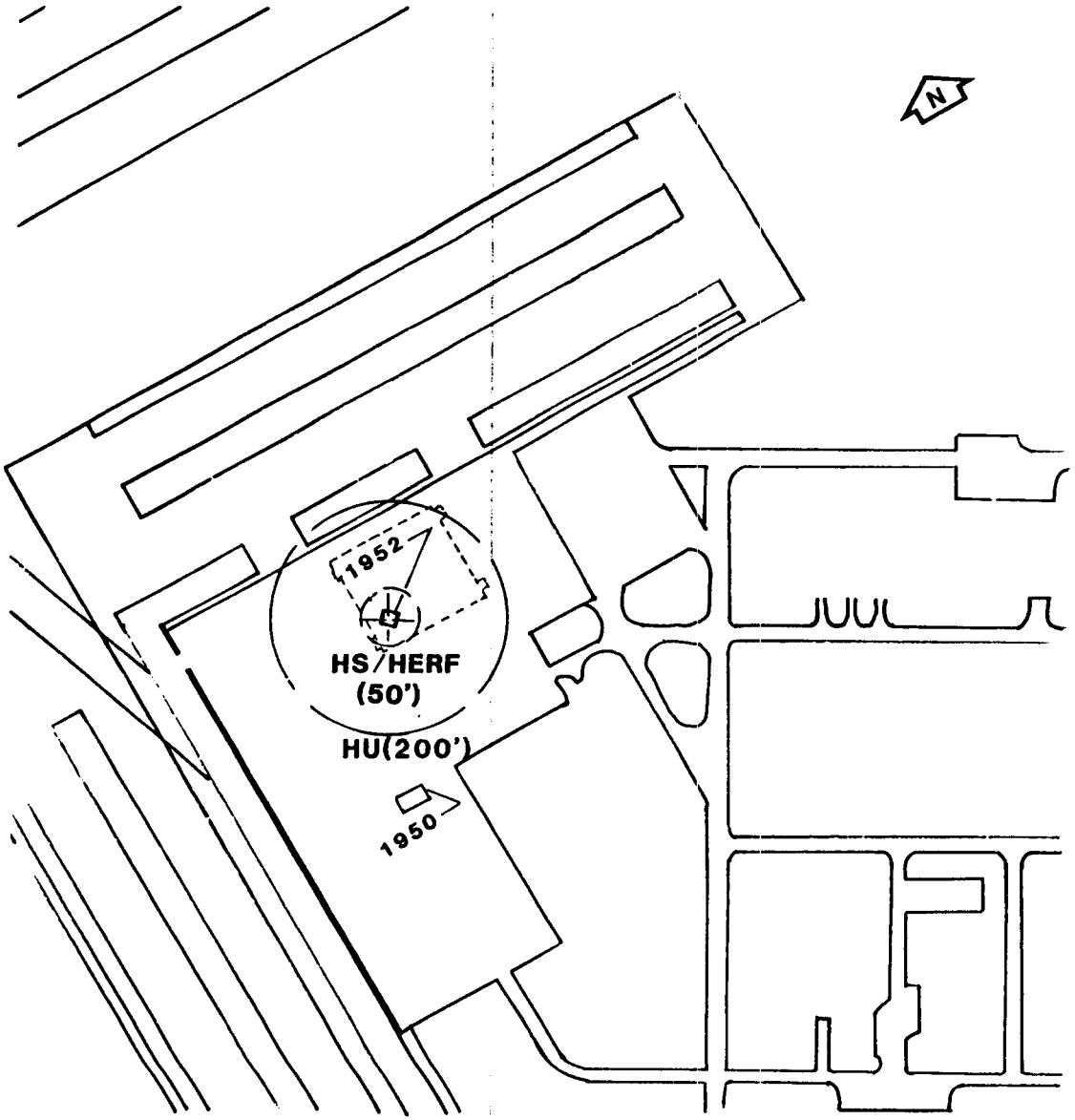
NALF WALDRON
Installation Map

figure VII-1



NALF Waldron
Vicinity and access map

figure VII-2



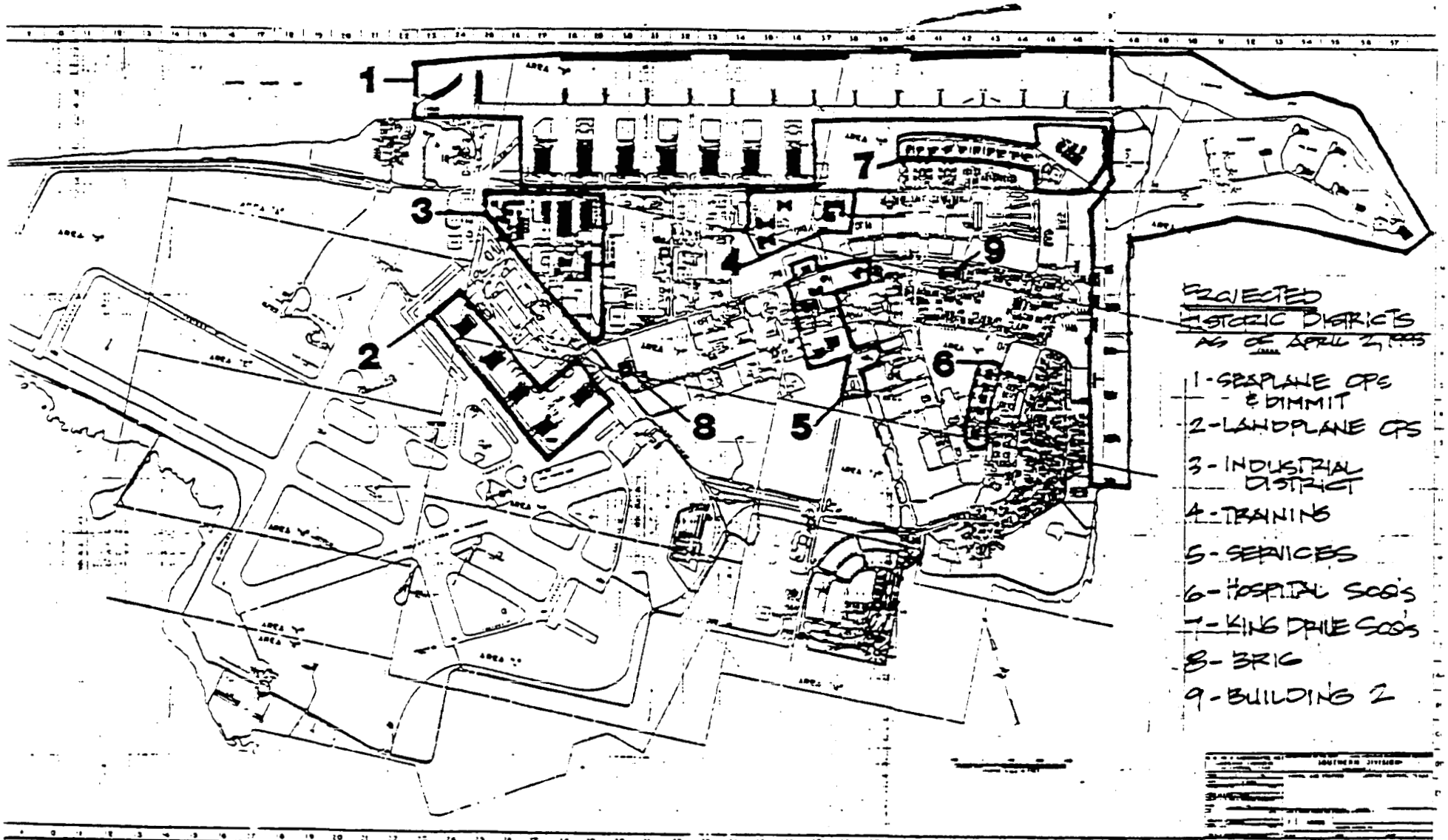
Legend

EMR: HU--hero unsafe
HS--hero susceptible
HERF--hazards of EMR to fuel

NALF WALDRON
EMR Arcs

figure VII-4

NASCORPC - DRAFT HISTORIC DISTRICTS PROJECTED IN EFFECT FY 94



PROJECTED HISTORIC DISTRICTS ■ = STRUCTURE TO BE NOMINATED AS ELIGIBLE TO THE NATIONAL HISTORIC REGISTER

- ALL STRUCTURES ON BASE PREDATING 1947 MUST BE REVIEWED BY STATE UNTIL FORMAL AGREEMENTS ARE SIGNED (FY94). IE. ANY PROJECT CONCERNING THESE STRUCTURES MUST GO THROUGH REVIEW UNTIL FURTHER NOTICE.
- BUILDINGS FALLING WITHIN HISTORIC DISTRICTS ARE SUBJECT TO REVIEW THOUGH ALL MAY NOT BE ELIGIBLE (= ■) *REGARDLESS OF DATE OF CONSTRUCTION. LARGE PROJECTS ADJACENT TO DISTRICTS ARE SUBJECT TO REVIEW.
- REVIEW CAN BE INITIATED IN EARLY PLANNING STAGES WHEN SCOPE OF WORK IS KNOWN. X2159 ext. 160 J. HEINEN

ATTACHMENT 2

DATA CALL REBUTTAL COMMENTS

ENCROACHMENT CONCERNS:

Encroachment pressures are negligible because of the strong community support as evidenced of the cities rezoning to meet the Air Compatible Use Zone (AICUZ) requirements as much as possible, politically. During the 1986 to 1987 time period the Training Air Wing Four and Naval Air Station Corpus Christi (NASCORPCS) Commanders determined that the only developed land that needed to be acquired was the Nunnery off the end of Runway 17 / 35 as Runway 13 / 31's threshold was displaced by 750'. This action did not effect the Pilot Training Ratio (PTR) of NASCORPCS. Thus, we improved our relations with the civilian community and were able to purchase undeveloped land with limited funds. The currently growth pattern for the City of Corpus Christi, Texas tends to be to the South and West and has little impact on NASCORPCS and Naval Auxiliary Landing Field (NALF) Waldron. But, this growth pattern affects one of our outlying fields, NALF Cabaniss. This growth patterns encroachment has only one impediment to solving; money. There are two remaining MILCON Projects at NASCORPCS; P-286 and P-311 totaling 9.3 million dollars.

NASCORPCS received a copy of the Corpus Christi State University (CCSU) Master Plan in October 1992. We have not had time to review and analyze the problems this plan will present for Runways 31L / 13R and 31R / 13L landing zones and their AICUZ and Noise areas. We have suggested to the City of Corpus Christi that they set a zoning height ordnance of 70' Mean Sea Level (MSL) elevation. When the U. S. Navy turned over the land to CCSU they placed a height restriction of 135 MSL elevation within the deed. This information was FAXed to NAVFAC and we are awaiting their input and suggested actions. Note: The City of Corpus Christi, Texas is in full agreement with the 70' MSL Elevation. The Major problem will be enforcing a City Code on a State Agency who has a deed from a Federal Agency stating other wise.

City of Corpus Christi

Bob Carlson, PWO Building 19(code 1831)
Corpus Christi Naval Air Station
Corpus Christi, TX 78419-5000

Subject: Population Projections for the Corpus Christi Metropolitan Statistical Area (Nueces and San Patricio Counties)

Dear Mr. Carlson:

As you requested I have enclosed population projections for the Corpus Christi MSA for 5 year intervals between the years 1990 thru 2030. These projections were obtained from the Texas State Data Center - Texas A & M University System. I have also enclosed the first 3 pages of a 40+ page report describing the methodology used to calculate these projections.

The enclosed projections are based on an assumption of 1.0 migration factor. Another words, the rate of migration for the MSA between 1980 - 1990 is assumed to continue. The Data Center has provided me with 3 other scenarios based on migration factors of .0, .5, and 1.25. Should you need these other projections please let me know. For your information I have summarized the 1.0 migration factor projections for total population below.

AREA	1990	1995	2000	2005	2010	2015	2020	2025	2030
Nueces County	291,145	309,927	328,278	345,315	362,405	375,157	386,616	396,180	403,350
San Pat County	58,749	63,517	68,270	72,824	77,097	81,553	85,880	89,730	93,181
MSA Total	349,894	373,444	396,548	418,139	439,502	456,710	472,496	485,910	496,531

Please call me if you have any questions or need any additional information.

Sincerely,

Robert E. Payne

Robert E. Payne, AICP
Senior City Planner

cc Brandol M. Harvey, AIA, AICP,
Director of Planning and Development

(ATTACHMENT 3)

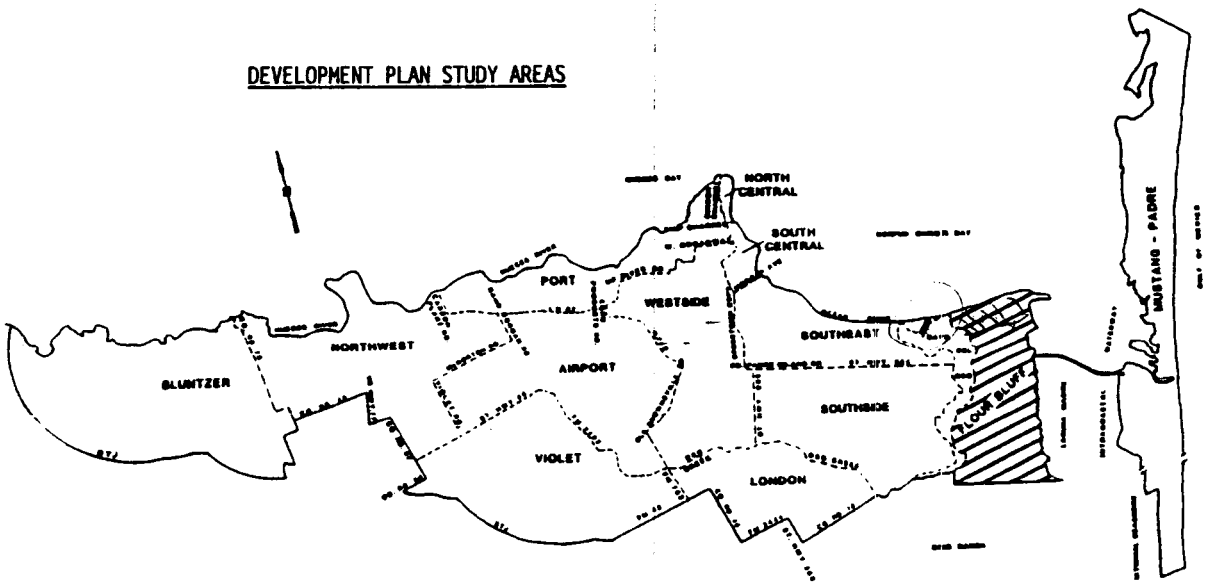
Department of Planning and Development
• P.O. Box 9277 • Corpus Christi, Texas 78469-9277 • (512) 880-3560

183/
7/I

FLOUR BLUFF AREA DEVELOPMENT PLAN

PLANNING COMMISSION AND STAFF RECOMMENDED PLAN FOR CITY COUNCIL ADOPTION JULY 14, 1993

DEVELOPMENT PLAN STUDY AREAS



CITY OF CORPUS CHRISTI PLANNING AND DEVELOPMENT DEPARTMENT

(ATTACHMENT 4)

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- STORMWATER 27
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- CAPITAL IMPROVEMENTS 32

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FLOUR BLUFF AREA DEVELOPMENT PLAN

INTRODUCTION

The Comprehensive Plan is mandated by the City Charter. It requires the City Council to *"...establish comprehensive planning as a continuous governmental function in order to guide, regulate, and manage future development..."* and, that *"all city improvements, ordinances, and regulations shall be consistent with the comprehensive plan."*

The Comprehensive Plan is a product of various plan titles such as Policy Statements, Area Development Plans, Capital Improvement Programs, and Master Utility Plans. The comprehensive planning process is a means for citizens and community leaders to guide community development. The Comprehensive Plan, by definition, is *general, long range, and broad in scope.* To help form the Comprehensive Plan, City Council divided the city and its environs into 13 Area Development Plan (ADP) study areas.

Development plans for these areas help resolve basic land use issues such as zoning and platting of properties, allocation of public services and facilities contained in the Capital Improvement Programs, and other area specific issues. In many cases, follow-up programs are needed to implement the many policies in the Plan. Implementation of these plans will help assure the most appropriate land development and provision of public services.

Coordination of the Capital Improvement Plan, various Area Development Plans, and day-to-day actions of line agencies responsible for implementing the Comprehensive Plan, will result in more cost effective development and tax dollar savings.

The Flour Bluff Development Plan Area (Figure 1 - Flour Bluff Area) is bounded by the Cayo del Oso on the west, Corpus Christi Bay on the north, Laguna Madre on the east, and the King Ranch on the south. On the north end of the peninsula is the Naval Air Station (NAS) and Corpus Christi Army Depot (CCAD) which are landmarks for the area. The Barney Davis power plant and cooling reservoirs are located next to the King Ranch at the southern end of the study area. In addition Flour Bluff is characterized by a natural abundance woodlands and brushlands, wetlands, and existing large lot development. When adopted this plan will supersede the 1982 Flour Bluff plan.

This plan is similar to the 1982 Flour Bluff Plan as both plans place a high priority on striking a balance between the desires of private property owners and achieving long term community goals, and objectives. Perhaps foremost among these compromises is to accommodate continued operation of the Naval Air Station while leaving reasonable development choices for the private property owner. This plan stresses the need to gradually move toward land uses which meet the Navy's guidelines for uses adjacent to it's airfields. A significant difference between this plan and previous plans is the more comprehensive scope and the greater detail provided in many of the recommendations, concerning parks, branch libraries, the road system etc.

The ADP incudes an Inventory and Analysis Report which describes existing conditions and background information. The Inventory and Analysis Report is available upon request from the Planning and Development Department.

PLAN GOALS AND OBJECTIVES

The guiding goals and objectives for the entire City and Extraterritorial Jurisdiction (ETJ), including the Flour Bluff Area, are contained in the Policy Statements adopted by the City Council in 1987.

The policies encompassed by this Plan address not only current issues, but needs that the City and Flour Bluff residents, property owners, and businesses perceive will become pressing in future years. Recognizing that not all suggested implementations will take place immediately, it is important to foresee and note problems and opportunities, and develop a long term strategy to address them.

The specific goals of the Flour Bluff Area Development Plan are to:

o **a. Encourage or require responsible growth that will preserve the existing natural environment.** The environment in Flour Bluff is unique to Corpus Christi. Awareness of the value of wetlands as a natural resource and as retention ponds, and woodlands and brushlands for habitat are needed to avoid destruction of these important resources.

o **b. Encourage sensible and appropriate development adjacent to Naval Air Station facilities.** The presence of the Naval Air Station is important to the economy of Corpus Christi and every effort should be made to encourage their continued operation.

o **c. Creation of a clean, litter free environment with adequate public services.** Illegal dumping is a major concern on Flour Bluff, which effects the quality of life in the area.

Principal objectives:

o **a. Protect the unique development pattern and environmental resources of the area. Objectives include:**

- ▸ Protect the Cayo del Oso and Laguna Madre.
- ▸ Continue large lot development in the southwest quadrant to maintain the distinct atmosphere established by existing development and use.
- ▸ Protect the environment through preservation and enhancement of environmentally sensitive areas.
- ▸ Create a zoning district which will protect environmentally sensitive areas.
- ▸ Preserve and enhance public access and recreational opportunities along the Laguna Madre and Cayo del Oso.

o **b. Maintain the integrity of the Naval Air Station. This can be done by:**

- ▸ Creating zoning regulations which only allow densities and uses that are compatible in Naval Air Station Air Installation Compatible Use Zone areas.

o **c. Propose appropriate land uses and a compatible transportation network to serve future land uses.**

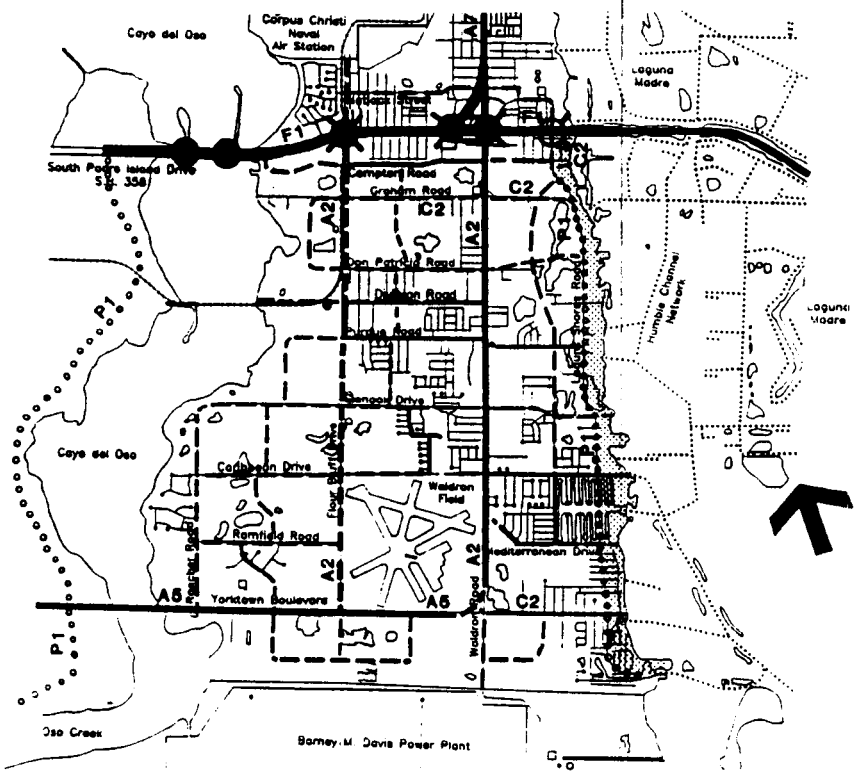
A. ENVIRONMENT

POLICY STATEMENT A.1

To protect the sensitive shoreline environment of the Laguna Madre by creating an overlay zoning district between the shoreline and Laguna Shores Road. (see Figure 2). Creation of an overlay zoning district with site plan review would accomplish the following objectives:

- a. Protect environmentally sensitive lands.
- b. Ensure the best use of private and public open spaces.
- c. Establish design control for shoreline areas, i.e. signage, landscaping, etc.
- d. Protect water quality in the Laguna Madre in keeping with National Pollutant Discharge Elimination System (NPDES) mandates.
- e. Preservation of views from public rights-of-way to public bodies of water.

FIGURE 2 LAGUNA SHORES OVERLAY AREA

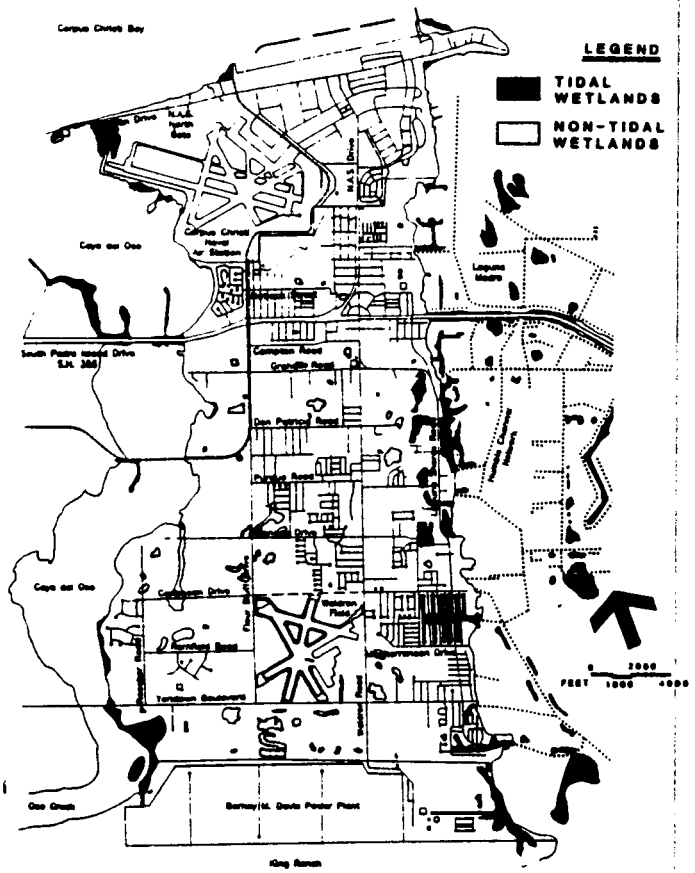


Laguna Shores Overlay Zone

POLICY STATEMENT A.8

The City will amend the City Code (Sec. #23-68 & #23-71) requiring vacant lots be completely mowed, so that large lots of one (1) acre or more are required to have a 50 foot swath where they abut structures, and a 30 foot swath where such lots abut public rights-of-way. Currently owners of large vacant lots must keep a 50 foot swath clear even when such properties abut vacant lots. This policy change would preserve beneficial habitat and reduce maintenance costs to owners of public and private property.

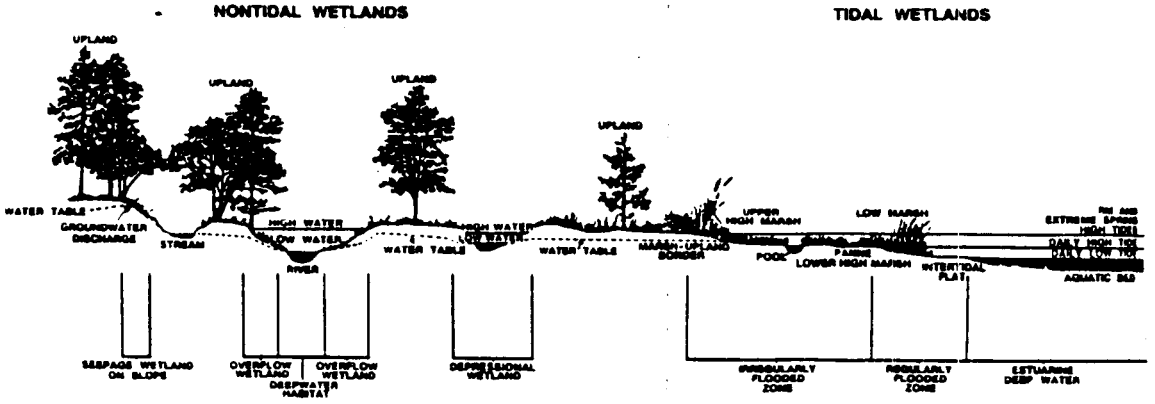
FIGURE 3 WETLAND AREAS



POLICY STATEMENT A.9

The City should encourage groups familiar in habitat objectives to assist in a program to document the location of threatened and endangered species habitats in Flour Bluff. Flour Bluff contains numerous wetland areas and the only remaining stands of live oak brush potholes in Nueces County. According to the U.S. Fish and Wildlife Service these areas contain a wide array of fish and wildlife, possibly including threatened or endangered species. (see Figures 3, 3a, 4 and Appendix A) If these habitats are found, they should be prioritized by the City relative to other such habitats found in the region. A Regional Habitat Conservation Plan is necessary to adequately evaluate and prioritize habitats.

FIGURE 3 A WETLAND SCHEMATIC

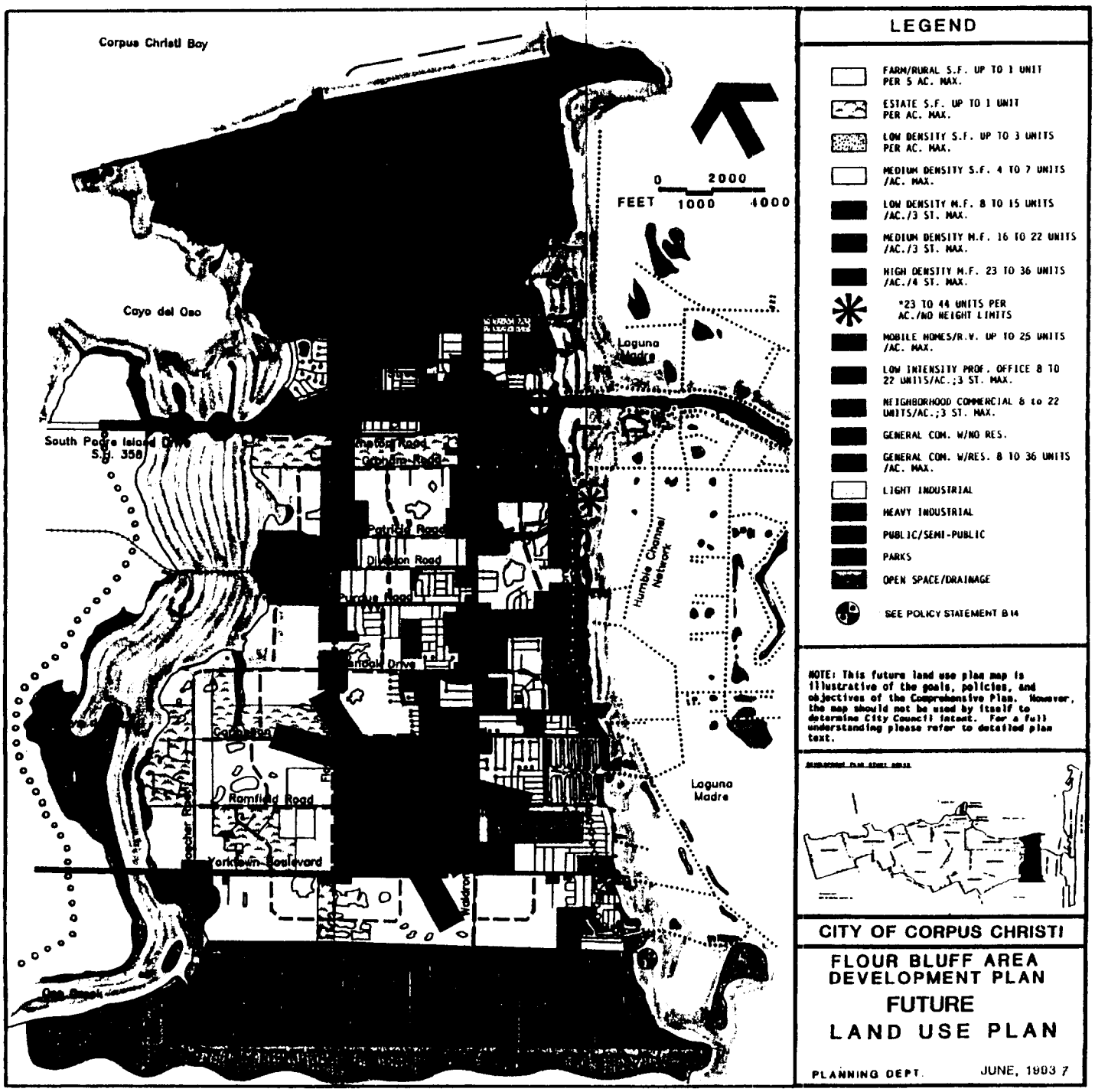


POLICY STATEMENT A.10

The City Park and Recreation Department will coordinate with City Engineering Services and U.S. Corps of Engineers to establish a program to monitor Laguna Madre and Cayo del Oso shoreline erosion. Where feasible, scheduled shoreline maintenance and capital improvements should be used to control erosion along City owned shoreline areas.

POLICY STATEMENT A.11

Maintain the one-mile minimum distance from the shoreline for any drilling operations.


Corpus Christi Bay
Cayo del Oso
South Padre Island Drive
S.H. 358
Patriot Road
Division Road
Lindell Drive
Ramfield Road
Yorktown Boulevard
Laguna Madre
Humble Channel Network
0 2000
FEET 1000 4000
LEGEND
FARM/RURAL S.F. UP TO 1 UNIT PER 5 AC. MAX.
ESTATE S.F. UP TO 1 UNIT PER AC. MAX.
LOW DENSITY S.F. UP TO 3 UNITS PER AC. MAX.
MEDIUM DENSITY S.F. 4 TO 7 UNITS /AC. MAX.
LOW DENSITY M.F. 8 TO 15 UNITS /AC./3 ST. MAX.
MEDIUM DENSITY M.F. 16 TO 22 UNITS /AC./3 ST. MAX.
HIGH DENSITY M.F. 23 TO 36 UNITS /AC./4 ST. MAX.
*23 TO 44 UNITS PER AC./NO HEIGHT LIMITS
MOBILE HOMES/R.V. UP TO 25 UNITS /AC. MAX.
LOW INTENSITY PROF. OFFICE 8 TO 22 UNITS/AC.;3 ST. MAX.
NEIGHBORHOOD COMMERCIAL 8 to 22 UNITS/AC.;3 ST. MAX.
GENERAL COM. W/NO RES.
GENERAL COM. W/RES. 8 TO 36 UNITS /AC. MAX.
LIGHT INDUSTRIAL
HEAVY INDUSTRIAL
PUBLIC/SEMI-PUBLIC
PARKS
OPEN SPACE/DRAINAGE
SEE POLICY STATEMENT B14
NOTE: This future land use plan map is illustrative of the goals, policies, and objectives of the Comprehensive Plan. However, the map should not be used by itself to determine City Council intent. For a full understanding please refer to detailed plan text.
CITY OF CORPUS CHRISTI
FLOUR BLUFF AREA DEVELOPMENT PLAN
FUTURE LAND USE PLAN
PLANNING DEPT.
JUNE, 1993

PROPOSED LAND USES	TOTAL ACREAGE	%	HOUSING UNITS	ULTIMATE POPULATION
Farm/Rural SF	390	3.4	78	187
Estate Density SF	407	3.5	407	977
Low Density SF	65	.6	130	312
Medium Density SF	2,243	19.4	12,337	29,609
Low Density MF	135	1.2	1,552	3,725
Medium Density MF	523	4.5	9,937	23,849
High Density MF	14	.1	413	991
Mobile Homes/RV's	186	1.6	2,418	4,392
Low Intensity Prof Office	1	.0		
Neighborhood Com	67	.6		
General Commercial w/No Res	377	3.3		
General Commercial w/Res	291	2.5		
Light Industrial	348	3.0		
Heavy Industrial	93	.8		
Public/Semi-Public	5,832	50.5		
Parks	253	2.2		
Open Space/Drainage	326	2.8		
Total	11,551	100.0	27,272	63,051

TABLE 2 FLOUR BLUFF DEVELOPMENT PLAN ULTIMATE DEVELOPMENT LAND USE ASSUMPTIONS

* Land Use Plan totals include the Naval Air Station (2,604 acres), Barney Davis Power Plant (2,000 acres) and Waldron Air Field (583 acres).

** Residential land uses are discounted by 25 percent to account for transportation needs.

*** Population estimates are totals for ultimate build out and are based on full occupancy, average household size of 2.4 persons, and a mid-point each residential density range.

of any changes to these zones and change as appropriate any city regulations pertaining to these AICUZs.

Within AICUZs there are three areas with different degrees of accident potential: Clear Zones (CZ); Accident Potential Zone 1 (APZ-1); and Accident Potential Zone 2 (APZ-2). Naval guidelines suggest that Clear Zones be purchased by the Navy as they are the most hazardous areas. Accident Potential Zone 1 is the second highest area of concern and Accident Potential Zone 2 is least hazardous of the three areas.

Existing zoning ordinance regulations do not comprehensively address concerns associated with land use compatibility in the Navy's Accident Potential Zones. Dense residential developments or non-residential uses which congregate large groups of people should be prohibited in Accident Potential Zones.

Due to the significant amount of existing development within these APZs it is not feasible, at this time, to strictly follow the Navy's use guidelines which call for:

o a. Accident Potential Zone 1 - prohibit residential uses and non-residential uses which may congregate large groups of people.

o b. Accident Potential Zone 2 - limit residential development to 1 or 2 units per acre and prohibit non-residential uses which may congregate large groups of people.

Given these concerns the following short and long term objectives are recommended:

■ SHORT TERM OBJECTIVES

o a. The City encourages the Navy to continue purchasing any remaining clear zone areas as these are the most hazardous of the Navy's Air Installation Compatible Use Zones.

o b. Non-residential uses and residential uses which may congregate large groups of people should be prohibited from locating in APZ - I or APZ - II areas. The City should create an APZ Overlay Zone, for APZ areas (see Figure 7), to prohibit the following new uses in any underlying base zoning districts:

- hospitals
- places of worship (indoor or outdoor)
- schools/universities
- stadiums/athletic fields
- fairgrounds/circus grounds
- child care centers/nursing homes
- theaters/auditoriums (indoor or outdoor)
- exposition halls
- clubs and bars with seating for more than 50 people or for more than 100 persons per acre
- amusement park
- motels/hotels
- public swimming pools, or natatoriums
- any other private or public facility for the assembly of more than 100 persons per acre.
- any new residential use with a density of greater than 1 unit per net (does not include street right-of-way or other public properties) acre for APZ-1 and 2 units per net acre for

POLICY STATEMENT B.6

The City should amend the 1987 Excavation Ordinance (Article IV) to include the following performance objectives:

○ a. Discourage excavations from locating near existing or future residential or commercial areas;

○ b. Establish a land reclamation requirement to prevent excavation pits from becoming a permanent blight on the land;

○ c. Revise the current ordinance (Section 13-156), to include site plan submission and review, a phasing program, outline of final land form, and reclamation of land; and

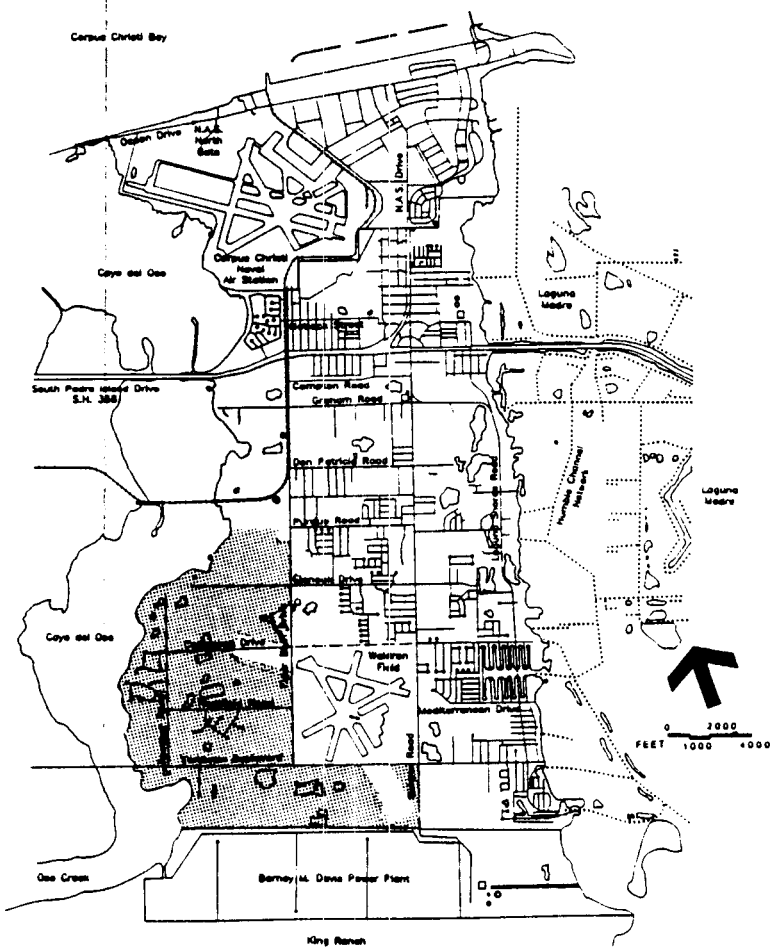
○ d. Require a bond to guarantee compliance.

The 1987 Ordinance addresses the permitting and environmental concerns before property can be used for excavation. However, the ordinance does not provide sufficient enforcement power to require complete or partial restoration of the land after excavation has been completed. At this time there is no guarantee for compliance. Bond posting requirements are strongly encouraged as an amendment to the ordinance. Posting a bond would guarantee compliance with restoration requirements.

POLICY STATEMENT B.7

The City should continue to encourage large lot development in the southwest quadrant (Figure 8) consistent with the existing development trend in the area and to preserve environmental qualities of the area. The southwest quadrant (bounded by the Cayo del Oso, Purdue Road, Barney Davis Power Plant, Flour Bluff Drive and Purdue Road) is characterized by a unique and sensitive natural environment. The City should support protection of this environment encouraging a continuation of the existing trend of large lots (1 acre or larger). Large lot development will help to protect the unique natural shrubbery, oak mottes, etc. in the area that would normally be lost as an area becomes developed. Large lot development is compatible as a buffer to the industrial use of the Barney Davis Power Plant which borders the south end of Flour Bluff.

FIGURE 8 SOUTHWESTERN QUADRANT

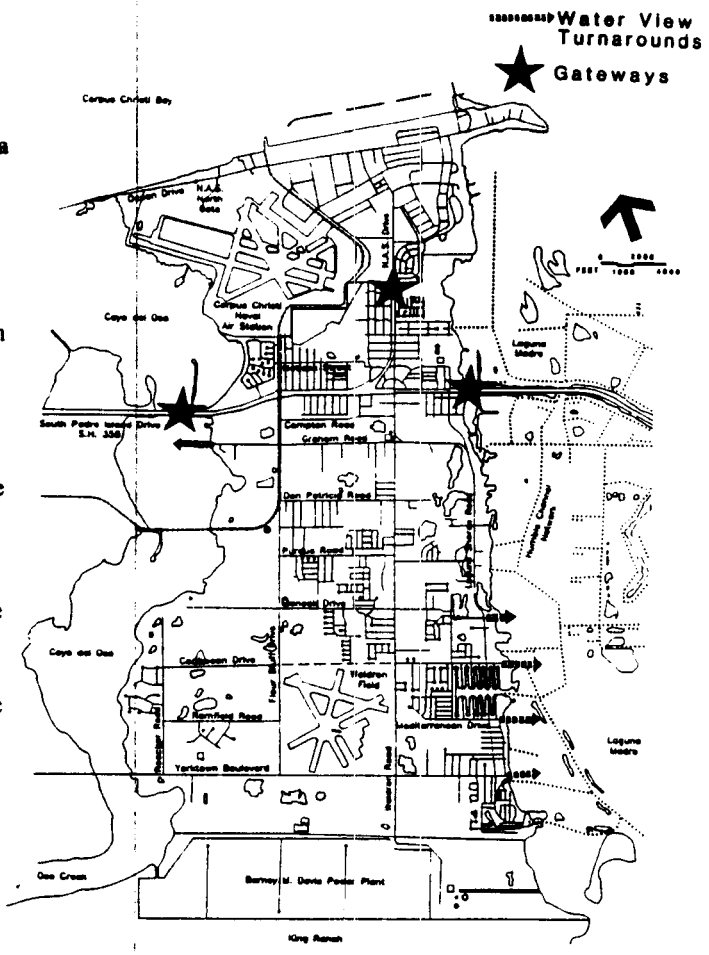


POLICY STATEMENT B.11

Designation of water view turn-a-rounds on Figure 9 are intended to maintain and enhance existing public access to Cayo Del Oso and the Laguna Madre. These areas provide opportunities to view the natural beauty of the Cayo Del Oso and the Laguna Madre and the hundreds of bird species that inhabit/or migrate thru the area. Design objectives for each of these areas include:

- a. Minimum 60' right-of-way and sufficient right-of-way to create turn-a-rounds;
- b. Construction of turn-a-rounds at the Laguna Madre terminus of Glenoak Drive, Caribbean Drive, Mediterranean Drive and Yorktown Blvd.;
- c. Construction of turn-a-rounds at the Cayo Del Oso terminus of Graham and Glenoak Drives;
- d. Creation of "look-outs", with public seating, landscaping, lighting, public parking etc.; and
- e. Where feasible, seek public access on state lands to enhance existing city property at minimal cost.

FIGURE 9 GATEWAYS AND WATER VIEW TURN-A-ROUNDS



POLICY STATEMENT B.12

Existing Industrial uses south of South Padre Island Drive between Waldron Road and Laguna Shores Drive should be encouraged to transition into uses compatible to adjacent proposed multi-family land use if, and when the current uses are discontinued. (see Future Land Use, Figure 5)

POLICY STATEMENT B.13

The City encourages opportunities for mixed commercial and residential uses when such mixed use development is part of a well integrated land use and public service plan of development.

C. TRANSPORTATION

PLAN STATEMENT C.1

The City Council adopts the Transportation Plan (Figure 10) as a guide for future transportation decisions. The transportation network of this plan constitutes a recommendation by the City to amend the Metropolitan Planning Organization Urban Transportation Plan. Upon adoption, the plan will be submitted for review and inclusion in the MPO Master Transportation Plan. Implementation of this transportation plan facilitates:

○ a. efficient emergency access, especially with regard to the Laguna Shores Road area;
○ b. relieve future traffic congestion; and
○ c. accomplish efficient transportation and development with minimal disruption of the natural environment.

Some recommended changes include but are not limited to:

▸ 1. Extend Compton Road westward, as a 2 lane collector street, from Flour Bluff Drive and swinging up to intersect with SPID.
▸ 2. Redesignate Graham Road from a 2 lane collector to a 4 lane collector between Flour Bluff Drive and Laguna Shores Road.
▸ 3. Redesignate Laguna Shores Road from an arterial to a 4 lane collector between Park Road 22 and the proposed Debra Street intersection.
▸ 4. Redesignate Laguna Shores Road from an arterial to a 2 lane parkway between the proposed Debra Street intersection and Yorktown Blvd. (a rural street cross section is acceptable without curb and gutter between Glenoak and Graham Road and should include continuous stabilized 7-8 shoulders on both sides of Laguna Shores and an 8' concrete bikeway on the water side of the street. (also see Policy Statement D.12)
▸ 5. Extend Jamaica/Debra Streets as a 2 lane, neighborhood collector, northward to Laguna Shores Road.
▸ 6. Redesignate a portion of Yorktown between Waldron Road and Laguna Shores Road from an arterial to a 4 lane collector.
▸ 7. Designate Compton and Knickerbocker Streets as 2 lane collectors.
▸ 8. Redesignate Stone/Jester Streets from collector to local streets and designate a loop 2 lane collector system between Flour Bluff Drive and SPID on Matlock, Claride and Lakeside Streets.
▸ 9. Designate Division Road as a 2 lane collector between the Cayo Del Oso and Waldron Road. Note, designation of Division Road provides an opportunity to cross the Cayo Del Oso should there be a need to do so in the future.
▸ 10. Delete proposed collector connections between Glenoak and Yorktown west of Flour Bluff Drive.
▸ 11. Illustrate proposed extension of Caribbean Drive Street between Waldron and Flour Bluff Drive however, it is important to note that this extension of Caribbean should not traversed the existing Waldron Park and proposed recreation facilities on Waldron Field. (See Policy D.14)
▸ 12. Realign proposed collector between St. Peter Street and Caribbean Drive to existing St. Francis Street.
▸ 13. SPID grade separation with east bound on-ramp and a west bound off-ramp at the Park Road 22/Laguna Shores Road intersection. Such a configuration should be considered long range and is only an option, subject to evaluation and study in combination with the raising the JFK Causeway.

▸14. Delete extension of Jamaica between Mediterranean and Yorktown.
▸15. Retain public rights-of-way at the Laguna Madre terminus of Glenoak Drive, Caribbean Drive, Mediterranean Drive and Yorktown Blvd. and at the Cayo Del Oso terminus of Graham Road. Retention and/or expansion of these streets to a 60' minimum right-of-way to state waters is necessary. These streets will provide opportunities for turn-a-rounds, looks-outs, limited public seating, lighting and landscaping.

POLICY STATEMENT C.2

The City encourages the Navy to expedite the closure of streets within clear zones and to establish a security fencing around all Clear Zones. This will reduce the opportunity for unauthorized access to the Naval Air Station lands.

POLICY STATEMENT C.3

To assure adequate circulation and egress in times of emergency, the City places as a priority extension of Debra/Jamaica Street as a north/south collector north of Mediterranean to serve as relief to Laguna Shores Road. The 6 inch seasonal tide makes Laguna Shores Road impassible. Compounding this, the section of Laguna Shores from Graham to Caribbean is in a FEMA V zone, which makes the area susceptible to flooding and wave action. Furthermore, upgrading Laguna Shores to full arterial status would be difficult or impossible given existing (federal) environmental regulations in this area. Debra Street should be extended as a second collector running parallel to Laguna Shores Road to be used for the bulk of the traffic. Debra Street could also serve as a backup for Laguna Shores Road since there is often road closure from Purdue to Graham.

POLICY STATEMENT C.4

Continue sidewalk improvement programs including those associated with the Voluntary Paving Program, the School Sidewalk Program, the street capital improvement program, and as part of new subdivision development. In addition, "sidewalk only" street improvements should be based on the following criteria:

- **Sufficient right-of-way exists to permanently place the sidewalk thus avoiding sidewalk relocation costs when full street improvements are constructed.**
- **Priority should be given to projects likely to serve the greatest number of users.**
- **Priority should be given to projects which are most likely to increase pedestrian safety.**

POLICY STATEMENT C.5

CAPITAL IMPROVEMENT NEED

Policy objectives in descending order of priority for improvements should be projects which will efficiently serve the Flour Bluff Area with emphasis on:

IV. ADP Proposed:

- Caribbean - Flour Bluff Dr. to western edge of Waldron Park
- Laguna Shores - Yorktown to south terminus
- Don Patricio - Waldron to Laguna Shores
- Compton - Flour Bluff Drive to SPID
- Neighborhood Street Improvements - curb/gutter/sidewalk improvements contingent on residents' petition for improvements
  - Flour Bluff Gardens
  - Don Patricio Subdivision
  - Bakers Acres
  - Homedale Subdivision/Retta Dr.
  - Waldron Subdivision
  - Oak Ridge/Laguna Heights subdivisions
  - Laguna Vista Shores/Holiday Harbor
  - Bayside Acres/Yorktown Heights
  - Blue Water/Tyler Subdivisions
  - Laguna Madre Cove
  - Bayberry Terrace
  - Tropic Isles

D. PUBLIC UTILITIES AND SERVICES

POLICY STATEMENT D.1

The City will up-date its water, wastewater, stormwater and other appropriate master service plans to accommodate development proposed in the Flour Bluff ADP.

WATER

POLICY STATEMENT D.2

The City will construct the distribution main on Laguna Shores Road between SPID and Division Road.

POLICY STATEMENT D.3

Develop a five year program to bring substandard water lines into compliance. Give highest priority to areas with the greatest population density. Give higher priority to those streets where street improvements i.e., widening, curb/gutter installation etc. could be combined with water line replacement. Potential funding sources: revenue bonds; state/federal grants; and/or use funds from water revenues.

Expand the street paving assessment program to include an option to improve substandard water lines, gradually improving water mains in areas where the property owners are willing to participate in a voluntary assessment program.

STORMWATER

POLICY STATEMENT D.4

The City will work with Federal and State agencies to use, where feasible and environmentally beneficial, natural or man-made wetlands as stormwater retention facilities.

POLICY STATEMENT D.5

The City will strive to assure stormwater discharges occur where the soil is stable, or require dissipaters. This would reduce the amount of erosion, which contributes to stormwater flow problems and degradation of water quality consistent with NPDES mandates. At the same time the

POLICY STATEMENT D.9

Initiate a design study to provide a new multi-use facility at Parker Park, possibly including a branch library (see D.15), a location for cultural exhibits, displays and events. If a branch library is incorporated into this park it must be carefully planned to complement existing and proposed park improvements. These proposed improvements might include a theme play area, centered around Corpus Christi history, such as Karancahua, Spanish explorers or information about the King Ranch. Inclusion of an outdoor congregation area/amphitheater (outside AICUZs) could be a central part of this concept.

POLICY STATEMENT D.10

Through donation, dedication or purchase acquire land for a park(s) along the Cayo Del Oso and the Laguna Madre as indicated on the future land use plan map. These parks include, but are not limited to, the following locations:

- a. On either side of the Oso rail road bridge and Division Road;
- b. The southside of Yorktown Blvd. where Yorktown crosses the Cayo Del Oso; and
- c. A 20 to 30 acre community park along the Laguna Madre Shoreline.

POLICY STATEMENT D.11

The City development objectives for the Cayo Del Oso shoreline (see Figures 2 and 10) include:

- a. Gateway improvements to city owned property at the entrance to Flour Bluff. Such improvements should include landscaping, appropriate signage, lighting and, if there is sufficient room on the property, seating areas for viewing the Cayo Del Oso.
- b. The City will develop and improve fishing areas, vehicular access and parking at the Naval Air Station Railroad bridge connecting to Division Road on Flour Bluff and Holly Road on the southside. It is possible to use the bridge for a bike/jogging path link between the east and west shores of Cayo del Oso. However, the bike/jogging path must be safely separated from fishing activities on the bridge.
- c. Designated park south of Yorktown Blvd. on the Cayo Del Oso.

POLICY STATEMENT D.12

Develop Laguna Shores Road into a scenic parkway.

Development objectives include:

- a. A key element of the proposed parkway would be a bikeway in the street right-of-way. The bikeway should be 8' wide, placed on the east side of the parkway, constructed of concrete and separated from the main vehicular travel lanes.
- b. Develop the green belt potential of the parkway by creating intersecting bikeways along drainageways and streets that connect with the parkway.

o a. Location of the library outside of the Navy's Accident Potential Zone 2 which cuts across the rear portions of the park.
o b. Provision of parking with an adequate number of spaces for joint use by the library, health clinic, community center, and passive/active recreation user which can be located in the APZ-2.
o c. Construction of a single story library facility rather than a multi-story structure. In order to provide sufficient land area one option that should be considered is the relocation of the existing tennis courts to the vacant northern portion of the park (inside APZ-2).
o d. Rezoning of the property to an appropriate zoning district.
o e. If sufficient space can be made available garage, space for a bookmobile serving island residents should be provided.

COMMUNITY DEVELOPMENT

POLICY STATEMENT D.16

The City should strengthen CDBG marketing and public awareness programs for qualifying residents and commercial uses. Although portions of Flour Bluff may be eligible for Community Development Block Grant programs, residents have rarely participated in these programs.
Public awareness can include: an intense program of neighborhood meetings, advertisement, house to house canvasing, and targeting of areas for street, curb, and gutter improvement. While meeting plan recommendations for residential and business activities in AICUZs, the City should encourage community development programs for:
o a. code enforcement;
o b. neighborhood improvement and beautification;
o c. housing rehabilitation; and
o d. neighborhood relocation.

POLICY STATEMENT D.17

The City will increase attention to areas of blight since they create a negative aesthetic reflection of the community, and are a hazard to the health and welfare of the citizens.
Following sound land use practices contained within the Comprehensive Plan will help to prevent future residential developments from the negative impacts created by industrial and commercial developments. In addition, the City will help reduce existing blight influences by:
o a. where feasible providing landscaping improvements in public rights-of-way along the SPID/NAS Drive corridor;
o b. encourage private property to exceed required landscaping improvements and provide landscaping improvements along SPID and NAS Drive;
o c. where consistent with future land use, provide incentives to encourage rehabilitation of older areas, or relocate housing or residents, to areas that provide safe, sanitary housing;
o d. pursuit of code enforcement of buildings and signs along NAS Drive and SPID. This would improve appearance and instill pride in the area and the community.

Approach banks in Flour Bluff to determine if they would finance or administer such loans. Seed money might also come from utility revenue, CDBG, or other State or Federal programs.

o Improvements to Graham Road, between Waldron Road and Laguna Shores Road. De-emphasis of Laguna Shores Road as a through street and emphasis upon the Debra Street Extension on Waldron Road for a more efficient collector/arterial network must be complimented by improvements to Graham Road as an important link between the Debra Extension and Waldron Road.

o Improvements to Yorktown Boulevard, west of Waldron Road and completion of Waldron Road widening between Caribbean and Yorktown. Flour Bluff residents require an alternative east-west arterial to the now near-exclusive predominant use of the SH 358 Expressway. Improvements to Yorktown and Waldron are part of a master plan to provide and outer arterial belt connecting the Flour Bluff area with the Southside Area, Westside Area and Northwest Area via Yorktown, Saratoga and Rand Morgan Road.

o Improvements to connect Glenoak with Roscher Road to provide better neighborhood access.

o Area wide residential area and continuous street lighting improvements.

APPENDICES

A. Environmental Reference

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ecological Services
c/o CCSU, Campus Box 338
6300 Ocean Drive
Corpus Christi, Texas 78412

TAKE PRIDE IN AMERICA

December 23, 1991

Nancy Harvieux
City of Corpus Christi, Planning Department
1201 Leopard
Corpus Christi, Texas 78401

Dear Ms. Harvieux:

Per your telephone request of November 13, 1991, we have compiled the following information to assist you in the City of Corpus Christi's long-range planning efforts. You asked for material pertaining to listed and candidate species, as well as information highlighting the significance of the wetland types, which occur in Nueces County.

The purposes of the Endangered Species Act (Act) of 1973, as amended, were to conserve ecosystems on which threatened and endangered species depend, to provide for the conservation of such species, and to take steps to achieve the purposes of the treaties and conventions as stated in Section 2(a) of the Act (see enclosure). Under the law, the Secretary of the Interior (acting through the Fish and Wildlife Service) has broad powers to protect and conserve all forms of wildlife and plants he finds in serious jeopardy. The Secretary of Commerce, acting through the National Marine Fisheries Service, has similar authority for protection and conservation of marine life.

A listed species is one whose status is legally recognized as threatened or endangered following a formal "rulemaking" procedure for determining which species would be placed on the U.S. List of Endangered and Threatened Wildlife and Plants. This "rulemaking" is the process used by Federal agencies (and many States) to propose and later adopt regulations which have the effect of law and which apply to all U.S. residents. An endangered species is defined as any species which is in danger of extinction throughout all or a significant portion of its range. Threatened species are defined as those species which are likely to become endangered within the foreseeable future throughout all or a significant portion of their range. Prior to any animal or plant being placed on the Federal species list, threats from habitat destruction, pollution, overharvesting, disease, predation, or other natural or man-made factors must be reviewed and evaluated.

Section 9 of the Act prohibits possession of, "take" of, or transportation of a listed species in interstate or international commerce without special permission. The term "take" as defined in the Act means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. This broad definition of "take" protects the habitat of a listed species as well as the individual organism. The Act also requires all Federal agencies to ensure that the activities they undertake or permit will not jeopardize the continued existence of listed species or result in adverse impacts to their critical habitat. The Act does allow the taking of listed species incidental to an agency action if such taking would not jeopardize the species.

American peregrine falcon (Falco peregrinus anatum) - E
Arctic peregrine falcon (Falco peregrinus tundrium) - T
Audubon's oriole (Icterus graducauda audubonii) - C2
black-spotted newt (Notophthalmus meridionalis) - C2
brown pelican (Pelecanus occidentalis) - E
Chandler craig-lily (Anthericum chandleri) - C2
ferruginous hawk (Buteo regalis) - C2
green sea turtle (Chelonia mydas) - T
Gulf Coast hog-nosed skunk (Conepatus leuconotus texensis) - C2
hawksbill sea turtle (Eretmochelys imbricata) - E
jaguarundi (Felis yagouaroundi) - E
Kemp's ridley sea turtle (Lepidochelys kempi) - E
leatherback sea turtle (Dermochelys coriacea) - E
loggerhead sea turtle (Caretta) - T
long-billed curlew (Numenius americanus) - C2
migrant loggerhead shrike (Lanius ludovicianus migrans) - C2
mountain plover (Charadrius montanus) - C2
northern grey hawk (Buteo nitidus) - C2
ocelot (Felis pardalis) - E
piping plover (Charadrius melodus) - T
reddish egret (Egretta rufescens) - C2
Rio Grande lesser siren (Siren intermedia texana) - C2
Sennett's hooded oriole (Icterus cucullatus sennettii) - C2
slender rushpea (Hoffmanseggia tenella) - E
South Texas ambrosia (Ambrosia cheiranthifolia) - C1
Texas Botteri's sparrow (Aimophila botterii texana) - C2
Texas horned lizard (Phrynosoma cornutum) - C2
Texas maritime pocket gopher (Geomys personatus maritimus) - C2
western snowy plover (Leucoplius alexandrinus nivosus) - C2
Wright's yellow-show (Amoreuxia wrightii) - C2

In addition to information concerning endangered species, you also requested clarification on the significance of wetland types occurring in Nueces County. The wetlands of the Texas coastal plain, including Nueces County, are varied and consist of vegetated and unvegetated tidal flats, intertidal marshes, submerged grassbeds, bayous, deltas, isolated inland depressions, and wetlands associated with river floodplains such as resacas or oxbows.

Several types of marine wetlands occur along the bay and Gulf shorelines in Nueces County. Brackish and saline intertidal marshes, characterized by either smooth cordgrass (Spartina alterniflora) or low-growing halophytic (salt-loving) emergent vegetation such as saltwort (Batis maritima), glasswort (Salicornia spp.), etc., perform a variety of functions in the bay ecosystems. Salt marsh vegetation provides essential nutrients which form the base of the estuarine food chain. This food chain supports recreationally and commercially important finfish and shellfish along the Gulf coast and includes white shrimp, brown shrimp, blue crab, stone crab, oyster, red drum, black drum, Atlantic croaker, weakfish, speckled trout, and flounder. Marsh vegetation also binds the sediments with root structures, thereby preventing shoreline erosion.

Unvegetated sand and mud tidal flats render important primary production and ecological roles. These flats contain numerous species of invertebrates including amphipods, isopods, mysid shrimp, cumaceans, copepods, crabs, and a diverse array of other benthic infaunal arthropods, as well as annelids, molluscs, and bryozoans. The aforementioned invertebrates feed on the various species of algae, bacteria, and protozoa, as well as detritus which occur in the flats. These species are in turn fed upon by numerous species of fish and crustaceans occurring throughout the bays' ecosystems. These wetland marsh and tidal flat areas also provide important foraging and resting habitat for numerous species of shorebirds and piscivorous water birds, including great blue herons, tricolored herons, reddish egrets, little blue herons, great egrets, snowy

Lacustrine wetlands (lakes and ponds) in Nueces County are by and large man-made impoundments. These habitats have various degrees of utility to wildlife and fishery resources depending on their configuration, depth, and the quality of their water source. One example of a highly valuable, man-made, lacustrine wetland can be found in Flour Bluff on Glenoak Drive, and is locally known as "Redhead Pond". The high intensity use of this pond by migratory waterfowl and resident waterbirds, mammals, etc. derives from its provision of fresh-to-brackish water during periods when fresh water is a limiting resource in the area. This pond also has a shallow perimeter which has allowed the establishment of emergent vegetation. The emergent marsh not only acts as cover for wildlife, but also as a filtering system for stormwater runoff and as a supply of nutrients to the pond. Another important lacustrine wetland resource in the county is a cluster of flooded gravel pits, dug in the floodplain of the Nueces River, which serve as excellent habitat for migratory and resident birds, other wildlife species, and fish. Especially valuable are those gravel pits which are near the river, isolated from residential construction, and which are at least partially surrounded by riparian vegetation. The results of annual bird surveys in and around these gravel pits shows the use of these areas by a wide diversity of bird life.

Marshes; swamps; bogs; fens; prairies; and other small, shallow, permanent or intermittent water bodies (ponds or potholes) are considered palustrine wetlands (Cowardin et al., 1979). Palustrine habitats in Nueces County serve as essential sources of drinking water, food, and resting areas for various species of migratory, shore, and wading birds. These wetlands also supply the freshwater required for many bird species to maintain salt gland functions. Submergent and emergent wetland plants and associated upland vegetation furnish forage for waterfowl, marsh birds, shorebirds, upland game birds, songbirds, and other wildlife. This vegetation also plays a key role in contributing vital nutrients to the aquatic ecosystem and in substrate stabilization.

Depressional pothole wetlands extend along the Texas coastal plain from Brownsville to Port O'Connor and are vital habitats for wildlife in Nueces County. A number of the most significant palustrine wetlands in Nueces County are depressional potholes and swales found on the barrier islands and on the Encinal Peninsula (Flour Bluff). Palustrine open water, semi-permanently flooded wetlands predominate on the Encinal Peninsula. The significance of these depressional wetlands to migratory birds and other wildlife was documented by Chaney (1981), Spiller and French (1986), and Collins (1987) (see enclosures).

A complex of live oak brush and adjacent potholes consists of numerous depressions of varying sizes found on the Pleistocene Strandplain sand formation which comprises the Encinal, Live Oak, Blackjack, and Lamar Peninsulas. The main concentration of live oak groves on the Texas coastal plain occurs on the Encinal and Live Oak Peninsulas. Flour Bluff encompasses the area in Nueces County on which remaining fragmented stands of live oak brush potholes are found. As documented by Collins (1987), the aquatic vegetation associated with the live oak potholes is often extremely diverse (see enclosure). On the neighboring Live Oak Peninsula potholes, surrounding upland vegetation is primarily live oak, red bay, yaupon, green briar, and mustang grape with a variety of other grasses, forbs, and shrubs interspersed or growing on the edges of the brush. The live oak brush pothole wetland complex supports a wide array of fish and wildlife species. During field observations of 18 potholes and surrounding brush communities on the Live Oak Peninsula, Collins (1987) recorded 20 species of mammals, 10 species of reptiles and amphibians, and four species of fish. Gunter (1950) documented five additional fish species in potholes on Aransas National Wildlife Refuge (Live Oak

Department for their active role in soliciting assistance with identifying important habitats in order to recognize these areas in the City's long-term development plans. The Service would like to offer assistance in any overall planning efforts and also on a project site-specific basis. Any activities planned by the City in areas adjacent to natural water bodies may be likely to impact wetlands and the Service will be glad to help with on-site identification of wetlands. All final delineations of jurisdictional wetlands however, must be conducted by the Army Corps of Engineers.

If you have any questions or need further assistance, please contact Robyn Cobb of this office at (512) 888-3346.

Sincerely,

Thomas E. Grahl

THOMAS E. GRAHL
Acting Field Supervisor

Attachments

B. Department of the Navy Land Use Recommendations

TABLE 4. SUGGESTED LAND USE COMPATIBILITY IN ACCIDENT POTENTIAL ZONES

LAND USE		CLEAR ZONE	APZ-1	APZ-2
SLUCM NO.	NAME			
10	**Residential**			
11	Household units			
11.11	Single units: detached	N	N	Y[1]
11.12	Single units: semidetached	N	N	N
11.13	Single units: attached row	N	N	N
11.21	Two units: side-by-side	N	N	N
11.22	Two units: one above the other	N	N	N
11.31	Apartments: walk up	N	N	N
11.32	Apartments: elevator	N	N	N
12	Group quarters	N	N	N
13	Residential hotels	N	N	N
14	Mobile home parks or courts	N	N	N
15	Transient lodgings	N	N	N
16	Other residential	N	N	N[1]
20	**Manufacturing**			
21	Food & kindred products: manufacturing	N	N[2]	Y
22	Textile mill products: manufacturing	N	N[2]	Y
23	Apparel and other finished products made from fabrics, leather, and similar materials: manufacturing	N	N	N[2]
24	Lumber and wood products (except furniture): manufacturing	N	Y[2]	Y
25	Furniture and fixtures: manufacturing	N	Y[2]	Y
26	Paper & allied products: manufacturing	N	Y[2]	Y
27	Printing, publishing, and allied industries	N	Y[2]	Y
28	Chemicals and allied products: manufacturing	N	N	N[2]
29	Petroleum refining and related industries	N	N	N

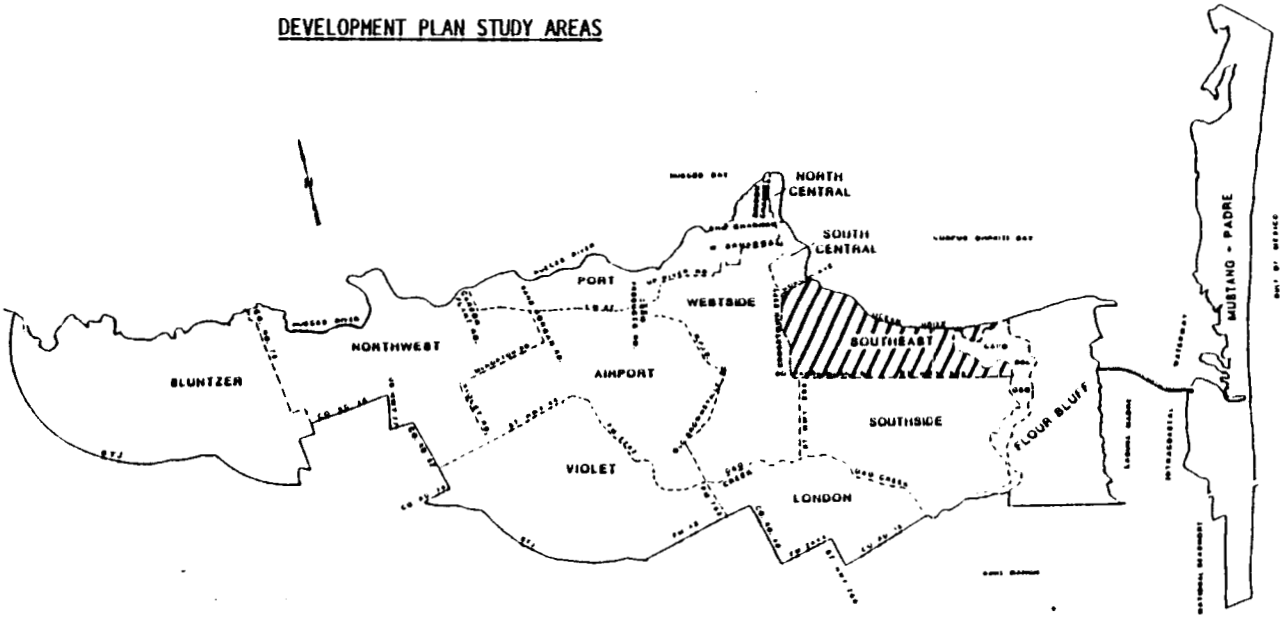
TABLE 4. SUGGESTED LAND USE COMPATIBILITY IN ACCIDENT POTENTIAL ZONES

LAND USE SLUCM NO.	NAME	CLEAR ZONE	APZ-1	APZ-2
60	**Services**			
61	Finance, insurance and real estate services	N	N	Y[6]
62	Personal services	N	N	Y[6]
62.4	Cemeteries	N	Y[7]	Y[7]
63	Business services	N	Y[8]	Y[8]
64	Repair services	N	Y[2]	Y
65	Professional services	N	N	Y[6]
65.1	Hospitals, nursing homes	N	N	N
65.1	Other medical facilities	N	N	N
66	Contract construction services	N	Y[6]	Y
67	Governmental services	N	N	Y[6]
68	Educational services	N	N	N
69	Miscellaneous services	N	N[2]	Y[2]
70	**Cultural, entertainment and recreational**			
71	Cultural activities (including churches)	N	N	N[2]
71.2	Nature exhibits	N	Y[2]	Y
72	Public assembly	N	N	N
72.1	Auditoriums, concert halls	N	N	N
72.11	Outdoor music shells, amphitheaters	N	N	N
72.2	Outdoor sports arenas, spectator sports	N	N	N
73	Amusements	N	N	Y[8]
74	Recreational activities (incl. golf courses, riding stables, water recreation)	N	Y[8,9,10]	Y
75	Resorts and group camps	N	N	N
76	Parks	N	Y[8]	Y[8]
79	Other cultural, entertainment and recreation	N	Y[9]	Y[9]
80	**Resource production and extraction**			
81	Agriculture (except livestock)	Y	Y	Y
81.5) 81.7)	Livestock farming and animal breeding	N	Y	Y
82	Agricultural related activities	N	Y[5]	Y
83	Forestry activities and related services	N[5]	Y	Y
84	Fishing activities and related services	N[5]	Y[5]	Y
85	Mining activities and related services	N	Y[5]	Y
89	Other resource production and extraction	N	Y[5]	Y

SOUTHEAST AREA DEVELOPMENT PLAN

DRAFT
March 10, 1994

DEVELOPMENT PLAN STUDY AREAS



CITY OF CORPUS CHRISTI PLANNING AND DEVELOPMENT DEPARTMENT

PLAN GOALS AND OBJECTIVES

The Corpus Christi Policy Statements adopted by City Council in 1986 contain the guiding goals, objectives and policies for the entire City and Extraterritorial Jurisdiction (ETJ) . The policies of the Southeast Plan complement, and are more specific than the Corpus Christi Policy Statements.

The policies encompassed by this Plan address not only current issues, but needs that the City and Southeast area residents, property owners, and businesses perceive will become pressing in future years. Recognizing that not all suggested projects and programs will take place immediately, it is important to foresee and note problems and opportunities, and develop a long term strategy to address them.

Key policies of the Plan are printed in bold print. However, for a full understanding of each statement, refer to the entire text.

The specific goal of the Southeast Area Development Plan is to protect the predominantly stable residential neighborhoods and to promote the efficient development of under utilized and remaining vacant land in the Area. An awareness of the multiplicity of uses, variety of special interest groups, economic development needs, and long time frame needed to change, influences the policies and plans contained in the Area Development Plan. **Principle objectives include:**

- **a. Stabilize and conserve residential neighborhoods;**
- **b. Designate appropriate land uses and a transportation network to adequately serve existing and future land uses;**
- **c. Facilitate planning for replacement of deteriorated infrastructure;**
- **d. Protect the unique residential character of Ocean Drive;**
- **e. Revitalize deteriorated housing and promote new residential development in areas best suited for such development;**
- **f. Encourage a well-integrated development plan protects existing residential neighborhoods when conversion of residential use to higher intensity use occurs;**
- **g. Emphasize conflict-free pedestrian and bikeway corridors and pathways to connect the downtown area to Texas A&M University - Corpus Christi and the Southside;**
- **h. Preserve public access, scenic views, and recreational opportunities along the bayfront and the Cayo Del Oso; and**
- **i. Encourage development that protects the continued operation of NAS Corpus Christi.**

A. ENVIRONMENT

POLICY STATEMENT A.1

The City should continue to work with State and Federal agencies to balance protection of the environment with the development needs of the community. Some of these agencies include, but are not limited to, the Federal Emergency Management Agency (FEMA), the U. S. Corps of Engineers, the Texas General Land Office, Texas Water Commission, etc.

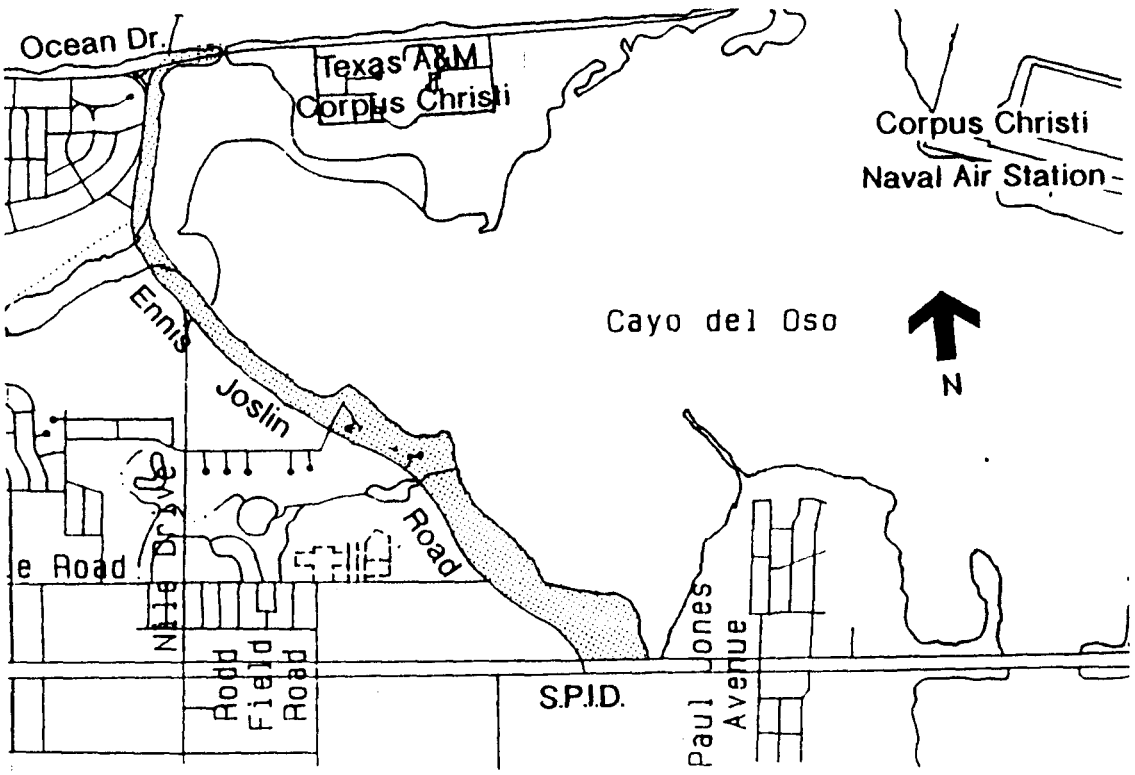
POLICY STATEMENT A.2

Maintain the one-mile minimum distance from the shoreline for any petroleum drilling operations.

POLICY STATEMENT A.3

The City should create an Overlay Zoning District (see Figure 2) between Ennis Joslin and the Cayo Del Oso similar to the Oso Parkway corridor recommended in the Southside, Westside, and Port/Airport/Violet Area Plan recommendations. Development in this area should protect the natural drainage ways, water quality, view vistas and natural plant/wildlife habitats. Secondarily, provide open space areas and hike/bike trail long Ennis Joslin and Ocean Drive shoreline areas. Protection of these features increases development potential for new residential, educational and recreational uses abutting the bayfront and the Cayo Del Oso.

FIGURE 2 CAYO DEL OSO OVERLAY AREA



The City should require a site plan review process for all developments in the Overlay Zone District. Site plan approval should be required prior to the issuance of any building permit. The process should include a quick turnaround so as not to unduly delay the development process. Any site plan appeal process should include a final determination by either an appointed board/commission or by the City Council.

The site plan may not necessarily require the services of a professional planner, architect, or engineer if the applicant can provide the required information. A site plan review process will assure coordination between City Staff and make development of environmentally sensitive areas easier to accomplish. When legislation (approved amendments to City Ordinances) is drafted to carry out this policy, the following information should be considered. In addition the legislation should address coordination between agencies of authority in a manner that will facilitate and not unduly delay the development process.

- a. Parcel or lot dimensions;
- b. The location, proposed use, size and height;
- c. Yard setbacks and space between existing and proposed structures;
- d. Parking, ingress, egress, and circulation;
- e. Grading/drainage;
- f. Placement and size of utilities;
- g. Screening;
- h. Required landscaping;
- i. Zoning;
- j. Notation and delineation of regulatory flood hazard or floodway boundary;
- k. Finished ground floor elevation;
- l. Location and delineation of wetlands as well as archeological sites and show Army Corps of Engineer Permit number;
- m. Provide copies of the Corps permit as well as any other permits required by a regulatory agency;
- n. Provide traffic, wastewater, and stormwater (utilities) impact reports showing compliance or non-compliance with various master plans and corrective action to ensure compliance; and
- o. Refuse collection facilities for multi-family, commercial and industrial activities.

POLICY STATEMENT A.4

The City Park and Recreation Department should coordinate with City Engineering Services, the Texas Parks and Wildlife Department, Texas A & M University - Corpus Christi, the Naval Air Station, and the U.S. Corps of Engineers to establish a program to:

- **a. Monitor Corpus Christi Bay and Cayo Del Oso shoreline erosion;**
- **b. Schedule shoreline maintenance of these public shorelines; and**
- **c. Propose capital improvement projects to protect the public shoreline.**

B. LAND USE

PLAN STATEMENT
B.1
The City Council, hereby, adopts the Land Use and Development Plan (Figure 3 and Table 1) and the accompanying text as a guide for future land use decisions. The Plan provides guidance for future land use decisions including rezoning, platting, fiscal management, and capital improvement planning. The Plan supports environmentally sound development and the efficient provision of public services and facilities.

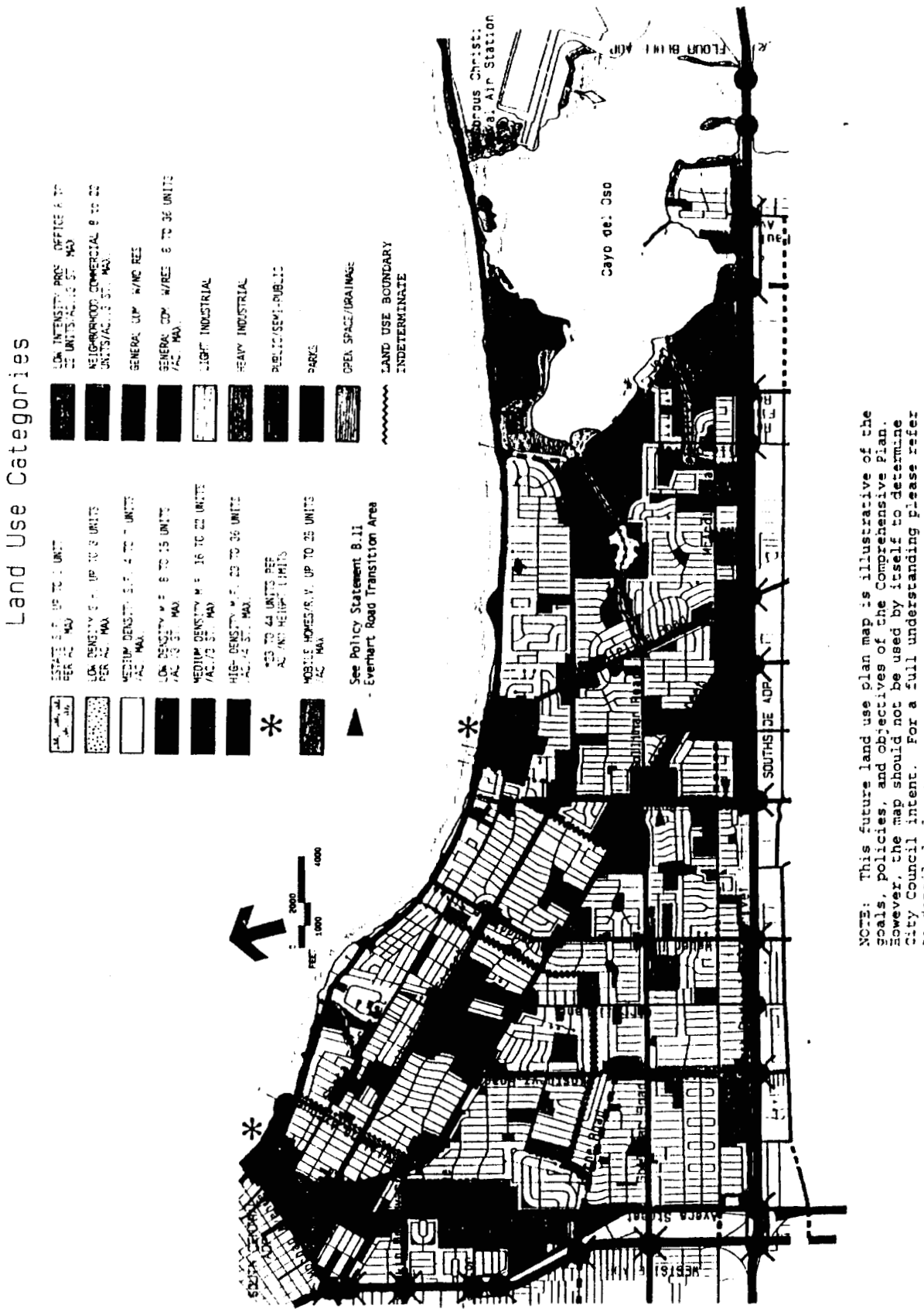
The future land use plan recommends those uses that are "most suitable." However, other uses that may also be acceptable are described in Table 1. Those uses described as "also acceptable " are more likely to require special buffering to assure compatibility with adjacent uses, or perhaps some other improvements to meet the full intent of the Comprehensive Plan.

Table 2 contains the total acreage of future land uses and potential population of an ultimately developed in the Southeast area.

POLICY
STATEMENT
B.2
In Table 1, Future Land Use Suitability, the "most suitable land use" column indicates those land uses least likely to cause negative impacts to the surrounding area and which is thought to most directly benefit the public health, safety and welfare of the community. Uses described as "also acceptable" might be permissible but they are likely to be negatively affected by the most suitable use or surrounding uses unless steps are taken to buffer negative impacts. Steps that should be taken to prevent negative impacts and promote sensitive design are:

- **a. Lighting from non-residential uses should be directed away from residential areas;**
- **b. Noise impacts from non-residential uses should be reduced by creating a buffer open space between the two areas. Such spaces may be landscaped areas, a street, a screening fence, larger setbacks, etc. These methods can be used singularly but are usually most effective when applied in combination to provide the desired effect;**
- **c. Placing low intensity activities next to single family uses; and**
- **d. Because non-residential areas are considered most suitable next to higher level roads, "also acceptable" uses will need to be buffered from negative traffic noise impacts if they are located immediately next to the highway.**

FIGURE 3 LAND USE AND DEVELOPMENT PLAN



NOTE: This future land use plan map is illustrative of the goals, policies, and objectives of the Comprehensive Plan. However, the map should not be used by itself to determine City Council intent. For a full understanding please refer to detailed plan text.

TABLE 1 FUTURE LAND USE SUITABILITY

SOUTHEAST	ALSO ACCEPTABLE													
MOST SUITABLE FUTURE LAND USE	FARM/RURAL	ESTATE DEN SF	LOW DEN SF	MEDIUM DEN SF	LOW DEN MF	MEDIUM DEN MF	HI DEN MF	MOBILE HOMES	LOW INT PROF OFF	NEIGHBORHOOD COM	COM W/NO RES	COM W/RES	LIGHT INDUSTRIAL	HEAVY INDUSTRIAL
FARM/RURAL SF; Up to 1 Unit Per 5 Acres														
ESTATE DEN SF; Up To 1 Unit/Ac	✓													
LOW DEN SF; Up To 3 Units/Ac	✓	✓												
MED DEN SF; 4 to 7 Units/Ac		✓	✓											
LOW DEN MF; 8 to 15 Units/Ac; 3 St Max			✓	✓										
MEDIUM DEN MF; 16 to 22 Units/Ac; 3 St Max				✓	✓									
HI DEN MF; 23 to 36 Units/Ac; 4 St. Max.				✓	✓	✓								
MOBILE HMS/RV's; Up to 25 Units/Ac.														
LOW INTENSITY PROF OFFICE; 8 to 22 Units/Ac.;3 St. Max.					✓	✓								
NEIGHBORHOOD COM; 8 to 22 Units/Ac.;3 St. Max.					✓	✓			✓					
GENERAL COMMERCIAL W/NO RESIDENTIAL									✓	✓				
GEN COM W/ RES; 8 to 36 Units/Ac.					✓	✓	✓		✓	✓				
LIGHT INDUSTRIAL									✓	✓	✓			
HEAVY INDUSTRIAL									✓	✓	✓		✓	

TABLE 2 SOUTHEAST DEVELOPMENT PLAN ULTIMATE DEVELOPMENT LAND USE ASSUMPTIONS

PROPOSED LAND USES	*TOTAL ACREAGE*	*%*	*HOUSING UNITS*[1]	*ULTIMATE POPULATION*[2]
Farm/Rural SF	*0*	*0.0*	*0*	*0*
Estate Density SF	*0*	*0.0*	*0*	*0*
Low Density SF	*0*	*0.0*	*0*	*0*
Medium Density SF	*6,225*	*56.1*	*25,678*	*61,627*
Low Density MF	*238*	*2.1*	*2,053*	*4,927*
Medium Density MF	*546*	*4.9*	*7,788*	*18,691*
High Density MF	*128*	*1.2*	*2,832*	*6,797*
Mobile Homes/RV's	*0*	*0.0*	*0*	*0*
Low Intensity Prof Office	*190*	*1.7*		
Neighborhood Com	*207*	*1.9*		
General Commercial w/No Res	*0*	*0.0*		
General Commercial w/Res	*905*	*8.1*		
Light Industrial	*221*	*2.0*		
Heavy Industrial	*0*	*0.0*		
Public/Semi-Public	*1,288*	*11.6*		
Parks	*744*	*6.7*		
Open Space/Drainage	*405*	*3.6*		
Total	*11,097*	*100.0*	*38,351*	*92,042*

** Residential land uses are discounted by 25 percent to account for transportation needs.

*** Population estimates are totals for **ultimate** build out and are based on full occupancy, average household size of 2.4 persons, and a mid-point each residential density range.

POLICY
STATEMENT
B.3

Redevelopment of properties within the area north of Ayers Street and east of Brownlee Boulevard should be sensitive to the remaining residential neighborhoods. Much of this area is used for single family or multi-family residential or for professional offices. Professional office uses are generally compatible with single and multi-family development in this area. However, commercial uses would have a more adverse effect and should only be considered for sites with frontage on an arterial street. Any commercial development should also be carefully planned to include sufficient transitioning (buffering, such as greater setbacks, fences, landscaping, height limitations, reduced signage etc.).

POLICY
STATEMENT
B.4

The City should encourage the Regional Transportation Authority and the Six Points Property Owners to improve the retailing environment of the Six Point Shopping Center. Major improvements should include:

- **a. Alameda and Staples median improvements;**
- **b. Sidewalk and crosswalk improvements; and**
- **c. Facade, landscaping, and other urban design improvements.**

More detail on each of the above recommendations can be found in the RTA & Six Points Study conducted by the Regional Transportation Authority (fall 1992). If the property owners in the area request it, the City should consider the creation of a new zoning district and/or urban design guidelines for the Six Points area.

POLICY
STATEMENT
B.5

Industrial zoned areas in the Southeast should not be expanded more then shown in the Land Use and Development Plan. Existing industrial uses should be permitted to continue and allowed limited expansion as shown in the Land Use and Development Plan.

POLICY
STATEMENT
B.6

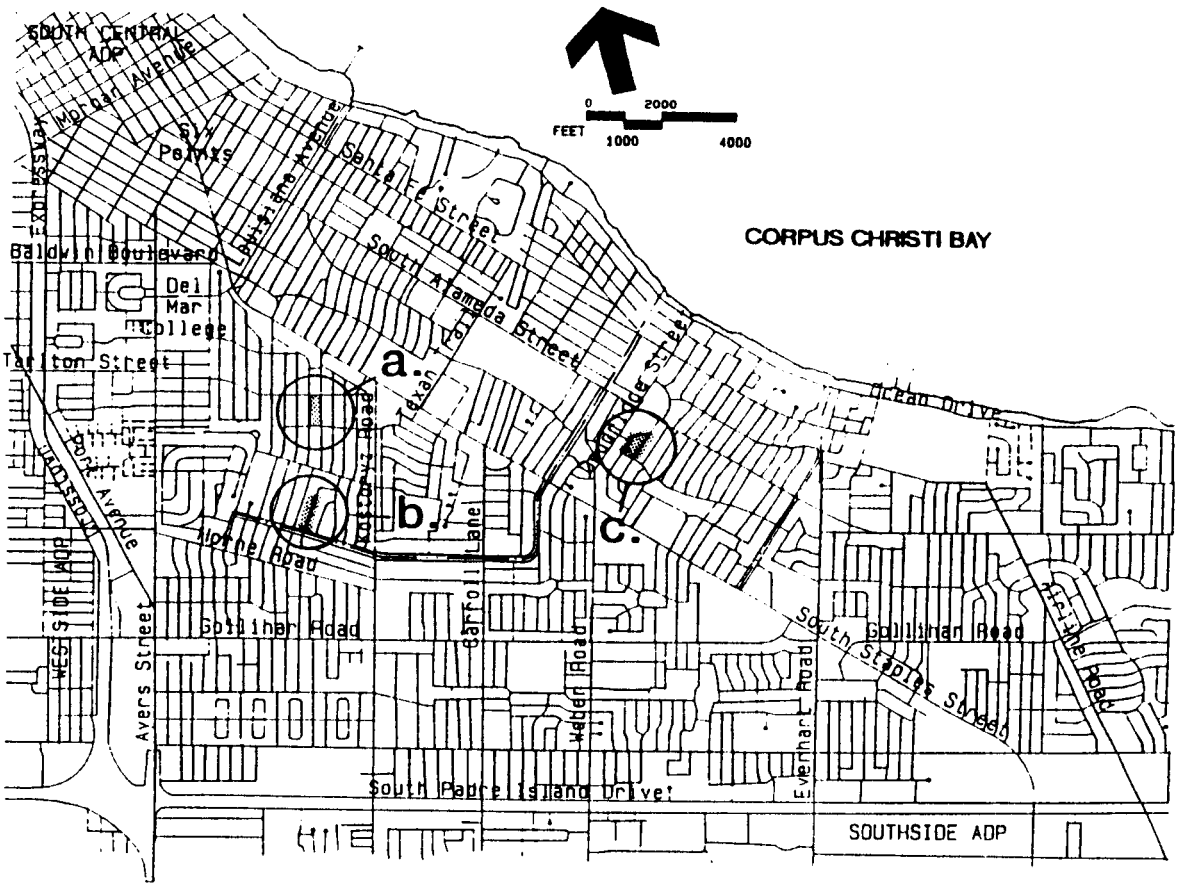
Ocean Drive is a unique, scenic, predominately single family residential arterial from Morgan Avenue to Alameda and rezonings to higher density multi-family or commercial should not be entertained favorably.

POLICY STATEMENT B.7

Several areas are completely developed with stable single family residential land use but are zoned multi-family. These areas should be rezoned from multi-family zoning to single family zoning in order to protect the existing stable single family residential uses:

- **a. Maryland and Devon Streets between Blevins and Orlando Streets;**
- **b. Lazy Lane north of Brawner Parkway to existing multi-family uses; and**
- **c. Wilshire Place and Delaine Drive between Alameda Street and Reid Drive.**

FIGURE 4 PROPOSED AREAS FOR REZONING FROM MULTI-FAMILY TO SINGLE FAMILY



POLICY
STATEMENT
B.8

The City encourages development that is compatible with the Naval Air Station, and other air installations. A primary concern associated with these Naval facilities is land use compatibility in the Navy's Air Installation Compatible Use Zones (AICUZ). These are areas where, due to frequency of over flights and other factors, a measurable potential for aircraft accidents is present. The geographic areas covered by these zones may change in the future due to changes in operations at the air fields, changes in the aircraft using the runways or other factors. The City should maintain constant contact with the Navy to maintain accurate record of any changes to these zones and change as appropriate any city regulations pertaining to these AICUZs.

Most of the land area in the Southeast area affected by clear zones and accident potential zones is on Ward Island. A small portion of Ward Island is privately owned and this policy and subsequent ordinances could be applied to the private property. However, most of Ward Island is owned by the State of Texas (Texas A&M University - Corpus Christi). Because Texas A&M University-Corpus Christi is an entity of the State of Texas, zoning regulations and other codes and requirements can not be applied to this area without the permission of the State of Texas. Therefore, the City should encourage the Texas A&M University-Corpus Christi to balance its needs for expanding the University with the guidelines and safety concerns expressed by the City and Navy in these areas.

Within AICUZs there are three areas with different degrees of accident potential: Clear Zones (CZ); Accident Potential Zone 1 (APZ-1); and Accident Potential Zone 2 (APZ-2). Naval guidelines suggest that Clear Zones be purchased by the Navy as they are the most hazardous areas. Accident Potential Zone 1 is the second highest area of concern and Accident Potential Zone 2 is least hazardous of the three areas.

Existing zoning ordinance regulations do not comprehensively address concerns associated with land use compatibility in the Navy's Accident Potential Zones. Dense residential developments or non-residential uses which congregate large groups of people should be prohibited in Accident Potential Zones.

Due to the significant amount of existing development within these APZs it is not feasible, at this time, to strictly follow the Navy's use guidelines which call for:

○ a. Accident Potential Zone 1 - prohibit residential uses and non-residential uses which may congregate large groups of people.

○ b. Accident Potential Zone 2 - limit residential development to 1 or 2 units per acre and prohibit non-residential uses that may congregate large groups of people.

Given these concerns the following short and long term objectives are recommended:

■ SHORT TERM OBJECTIVES

○ a. The City encourages the Navy to continue purchasing any remaining clear zone areas as these are the most hazardous of the Navy's Air Installation Compatible Use Zones.

o b. Non-residential uses and residential uses that may congregate large groups of people should be prohibited from locating in APZ - I or APZ - II areas. The City should create an APZ Overlay Zone, for APZ areas (see Figure 5), to prohibit the following new and similar uses in any underlying base zoning districts:

- hospitals
- places of worship (indoor or outdoor)
- schools/universities
- stadiums/athletic fields
- fairgrounds/circus grounds
- child care centers/nursing homes
- theaters/auditoriums (indoor or outdoor)
- exposition halls
- clubs and bars with seating for more than 50 people or for more than 100 persons per acre
- amusement park
- motels/hotels
- public swimming pools, or natatoriums
- any private or public facility for assembly, which averages more than 100 persons per acre.
- any new residential use with a density of greater than 1 unit per net (does not include street right-of-way or other public properties) acre for APZ-1 and 2 units per net acre for APZ-2 except where the base zoning is more restrictive, then use base zoning residential density/use requirements.

In addition, storage of explosives should be prohibited in any Clear Zone or Accident Potential Zone.

o c. City housing rehabilitation programs should only be used in areas where residential land use is recommended and where residential zoning exists.

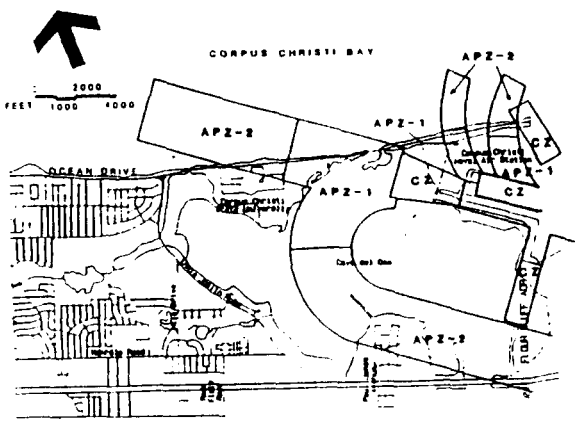
o d. Public purposes being served by existing and planned expansion to Texas A & M University - Corpus Christi are considered appropriate.

o e. Consider rezoning (base zoning district) of vacant, and unplatted property that is not consistent with AICUZ objectives. The remaining vacant unplatted property east of South Bay Subdivision located under APZ - 2 should be considered for rezoning, consistent with these objectives.

■ LONG TERM OBJECTIVES:

o a. Continue overlay zone requirements contained in the short term objective and consider prohibiting new residential uses in APZ-1.

FIGURE 5 AIR INSTALLATION COMPATIBILITY USE ZONE



AICUZ (AIR INSTALLATION COMPATIBLE USE ZONES)

CZ

Clear Zone - acquired by Navy; no development recommended.

APZ-1

Accident Potential Zone I significant potential for aircraft accidents; recommend no residential, commercial, or industrial development congregating large groups.

APZ-2

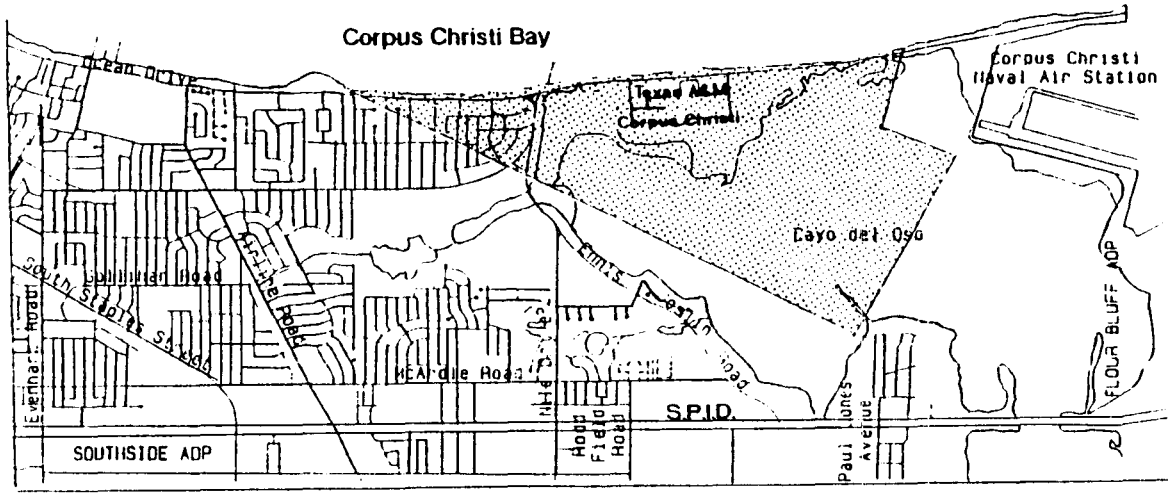
Accident Potential Zone II - measurable potential for aircraft accidents; recommend limited residential development (1 to 2 dwelling units /acre). Commercial and industrial development limited to uses not congregating large groups.

POLICY
STATEMENT
B.9

The Joint Airport Zoning Board should amend the Military Airport Zoning Height Regulations to address the Horizontal Imaginary Surface height limitation guidelines established by the Navy for the Naval Air Station. (see Figure 6) The City's current height limitation zoning ordinance meets minimum height restrictions of the Federal Aviation Administration (FAA). However, the Navy has published height limitation guidelines that, in some areas, would be more restrictive then the FAA requirements and the current city airport zoning ordinance. Figure 6 below displays those areas where a more restrictive height limitation is recommended. It is important that new development not intrude into the Horizontal Imaginary Surface as this aircraft approach is use during times when visibility is poor, and for pilot training.

If this policy is adopted, implementation could be required of all new development on private property. However, the City cannot restrict development of State lands. Therefore, the City should encourage Texas A&M University-Corpus Christi on Ward Island, to discuss future development with the City and Navy and balance development needs in a way that will not limit or place continued operation of NAS Corpus Christi in jeopardy.

FIGURE 6 NAS HORIZONTAL IMAGINARY SURFACE



Areas where the existing Military Airport Zoning Ordinance would allow construction heights greater than provided under the Horizontal Imaginary Surface (backup to primary approach) established by the Navy for the Naval Air Station.

POLICY
STATEMENT
B.10

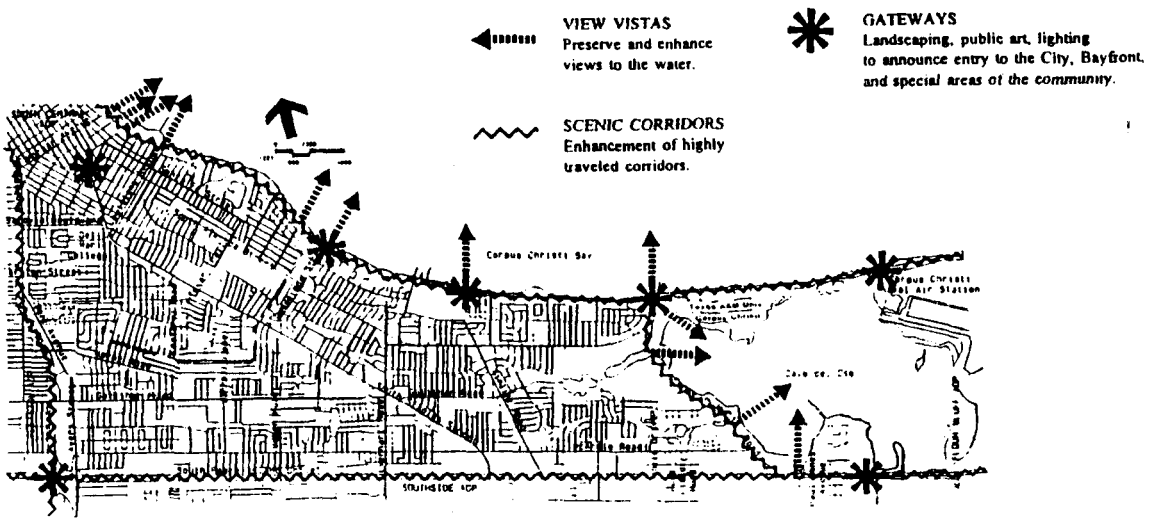
The City should establish development regulations along streets designated as scenic corridors, and at points designated for view vistas and gateways. (See Figure 7)

<u>Scenic corridors</u> are rights-of-way where the City wishes to enhance highly traveled streets or entry ways. The primary emphasis is on providing an attractive view from a vehicle or pedestrian passing.

View vista defined as points of public land where the City wishes to preserve a clear line of site to a natural or manmade feature. Those features might include a bay, a special district, or an historic structure. Primary emphasis is on the view from a right-of-way corridor to the point of interest.

Gateways are designed to give a sense of place marking passage from one area to another. For example, Six Points, the intersection of Ocean Drive and Alameda Street, and the intersection of South Padre Island Drive and Crosstown Expressway. Major landscaping, public art, and special effect lighting are appropriate at gateways. When these improvements are made they will create a more distinct and memorable place.

FIGURE 7 SCENIC CORRIDORS, VIEW VISTAS, AND GATEWAYS



View vistas should be under public control whenever possible or protected through special permits as appropriate.

Design objectives along view and scenic corridors and gateways include:

- a. Landscaping on private property should be consistent with the Landscape Ordinance and the planting theme established in the area (i.e. Ocean Drive area median with it's palm plantings)
- b. Private and public signage of all types should have stringent design controls consistent with the tourist and recreational theme of the Bayfront. Public signage should be standardized and billboards and portable signs should be eliminated;
- c. Utilities should be placed underground; and
- d. Public art projects could be placed in gateways and strategically located in scenic corridors, consistent with the Municipal Arts Commission's public art guidelines and plan.

POLICY STATEMENT B.11

Much of the area long Everhart Road between SPID and Staples Street is transitioning from residential, office and neighborhood commercial use to a more intensive commercial use. As this transition occurs the City will encourage the most intensive nodes of commercial development at the intersection of SPID and Staples Street. Between these high intensity nodes of commercial development the City will encourage a transition to a combination of unrestricted neighborhood commercial uses and some limited general commercial uses.

Over a period of years the increase in traffic flow on Everhart Road has made residential areas less desirable for residential use and attractive for intensive commercial redevelopment. The City's Special Permit (Zoning Ordinance) has been used to grant general commercial uses for many of these properties while retaining the underlying low intensity zoning district. As this area continues to redevelop with commercial uses, the City should require property owners to develop their properties in a way that will minimize negative impacts to adjacent residential neighborhoods and lessor commercial uses still going through transition. The following design objectives and list of prohibited uses should be applied to this area.

- a. No loading areas allowed within 50' of the rear property line and within 10' of the side property lines which abut single family zoning districts.
- b. No trash dumpsters allowed within 50' of the rear property line and within 10' of the side property lines which abut single family zoning districts.
- c. Lighting directed away from residential areas.
- d. No public address systems allowed and noise attenuation techniques may be required. For example, noise attenuation may include an eight foot screening wall instead of a standard 6' fence. Another example might be to prohibit garage doors along the rear of a building (side next to residential zoned area) to reduce noise from auto repair shops.
- e. Prohibited uses - uses associated with noise or high traffic generation beyond the usual business hours of 8 a.m. to 7 p.m. should be prohibited. Such uses would include but are not limited to bars, clubs, dance halls or taverns; billiard parlors, bowling alleys, or skating rinks; 24 hour printing, publishing or engraving.

Implementation of these design objectives should be accomplished by the existing Special Permit process.

C. TRANSPORTATION

PLAN STATEMENT C.1

The City Council adopts the Transportation Plan (see Figure 8) as the guide for future transportation decisions. Wherever this transportation plan calls for additional rights-of-way (than currently exists), such future right-of-way line is considered to be the property line when measuring building setbacks, in order to prevent construction of buildings, signs or any other permanent structures that would block these future rights-of-way. The transportation network of this plan constitutes an amendment to the City's Transportation Plan. These changes, which are a function of Texas Department of Transportation funding, will be submitted for review and inclusion in the Metropolitan Planning Organization's Urban Transportation Plan. Changes to the City's Transportation Plan include:

- a. Make Ocean Drive's planned cross-section consistent with its existing improvements of four lanes with landscaped median. A long term objective of the plan is to protect and preserve this truly unique scenic corridor. Another major objective for future improvement of this boulevard is to increase pedestrian safety by allowing dedication of sidewalk easements in locations where sidewalks are not available or where the sidewalk is too narrow in lieu of the otherwise required right-of-way dedication. Because so much of this highway segment is already developed and the potential for acquiring the right-of-way or easement through the platting process is very limited. Therefore, public acquisition through purchase will be required in many cases.

- b. Continue the theme of Ocean Drive's landscaped median along the Cayo Del Oso and accommodate larger volumes of traffic to Texas A&M University-Corpus Christi and the Naval Station by upgrading Ennis Joslin ultimately to six travel lanes with landscaped median within 120 feet of ROW. However, interim, or medium range, improvements may be constructed with lesser improvements as dictated by traffic warrants and funding limitations. Median cuts for left turns on the ultimate roadway should be reduced to protect traffic carrying capacity. Such median cuts may occur at street intersections;

- c. In the long term, as traffic congestion on Ocean Drive continues to increase the level of service on Alameda, Santa Fe and 3rd street should be improved in order for these arterial to function as overflow or relief routes for commuter through traffic. The following long range improvements should be accomplished to provide relief to Ocean Drive traffic congestion;

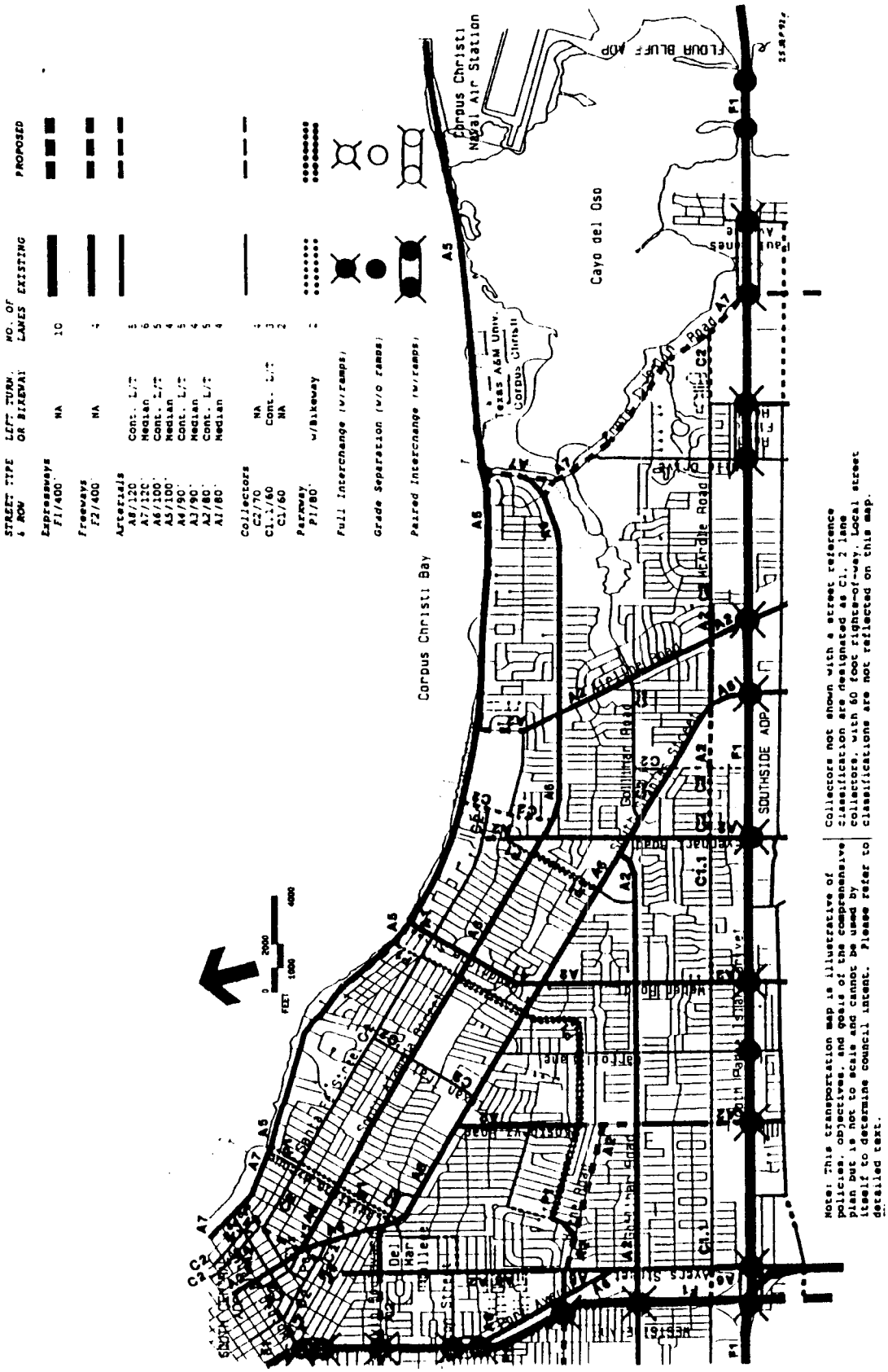
  1) Improve through movement of traffic on Alameda, Santa Fe and 3rd street with "real-time" traffic responsive signal coordination.

  2) Provide a smoother connection between Ennis Joslin Road and Alameda Street. (see Figure 8) This will provide more direct traffic flow between Ennis Joslin and Alameda, thus serving to relieve commuter through traffic from Ocean Drive.

  3) Provide a more direct connection of Santa Fe Street with Third Street. The preferred connection is illustrated on Figure 10, where Third Street would be realigned (approximate alignment), between Elizabeth and Ayers Streets, near Spohn Hospital.

  4) Preserve the opportunity (via existing street and drainage right-of-way) for an Everhart to Santa Fe connection as one of several options to relieve congestion on Alameda Street and on Aberdeen Avenue.

FIGURE 8 TRANSPORTATION PLAN



5) Analyze the need for a RTA park and ride facility throughout the study area and the city. The primary function of such a facility is to reduce congestion, consumption of fuel, and to protect the air quality. A secondary benefit is the relief of the parking requirement at Texas A&M University-Corpus Christi freeing the limited space available for education and related activities and buildings. Such a facility should include security.

- d. Redesignate Ayers Street, between Ocean Drive and Baldwin Boulevard, 80 foot arterial with five lanes;

- e. Reduce the proposed cross-section on Ayers Street, south of Baldwin Avenue, from 100 foot arterial with 7 lanes to an 80 foot arterial with five lanes;

- f. Redesignate Elizabeth Street, between Ocean Drive and Brownlee Boulevard, from an 80 foot arterial with five lanes to a 70 foot collector with four lanes;

- g. Increase the proposed cross-section of Brownlee Boulevard, between Morgan Avenue and Staples Street, from a two lanes collector to an 70 foot collector with four lanes;

- h. Designate Booty Street as a 60 foot collector with two travel lanes;

- i. Designate Alameda Street north of Booty as a 60 foot collector with two travel lanes;

- j. Designate Naples Street, between Staples and Blevins Streets, as a 70 foot collector with 4 lanes;

- k. Decrease the proposed cross-section of Ramsey Street, between Horne Road and Brawner Parkway, from an arterial with five lanes to an 70 foot collector with four lanes;

- l. Increase the proposed cross-section of Horne Road, between Ramsey Street and Kostoryz Road, from a two lane collector to a 70 foot collector with four lanes;

- m. Redesignate proposed cross-section of McArdle Road between the Crosstown Expressway to Holmes Street/Lions Park, from two lanes to a 60 foot collector with 2 lanes and a center left turn lane and no parking;

- n. Redesignate McArdle Road between Holmes Street/Lions Park to Crescent Street from a collector to an arterial with 80 feet of right-of-way, 4 lanes and a continuous center left turn lane.

- o. Redesignate proposed cross-section of McArdle Road between Crescent Street and Ennis Joslin Road, from two lanes to a 70 foot collector with four lanes with no parking between Nile Drive and Ennis Joslin Road.

- p. Extend Mustang Trail, between Staples Street and S.P.I.D., as a 70 foot, 4 lane network-serving collector;

- q. Retain only those collectors, as indicated in Figure 8, which are currently or projected to meet the traffic demands as an urban collectors on the Transportation Plan. Reclassify the following

streets, which are indicated on the current Transportation Plan as urban collectors, to minor collectors or residential streets. Identify and amend the Urban Transportation Plan to reflect these changes:

- Angel/Breezeway/Oleander Streets
- Churchill/Shely/Logan Streets
- Blevens Street (between Naples and Staples Streets)
- Casa Linda Street(Norton to Staples)
- Swantner Street (Texas to Glazebrook)
- Reid Drive
- Rossiter Street
- Center Street
- Dulaine Street
- Ft. Worth Street
- Catalina Street
- Harry Street
- Belmeade Street
- Gollihar Road (Airline to Belmeade)
- Harbor Lights/Cayo Drive

POLICY STATEMENT C.2

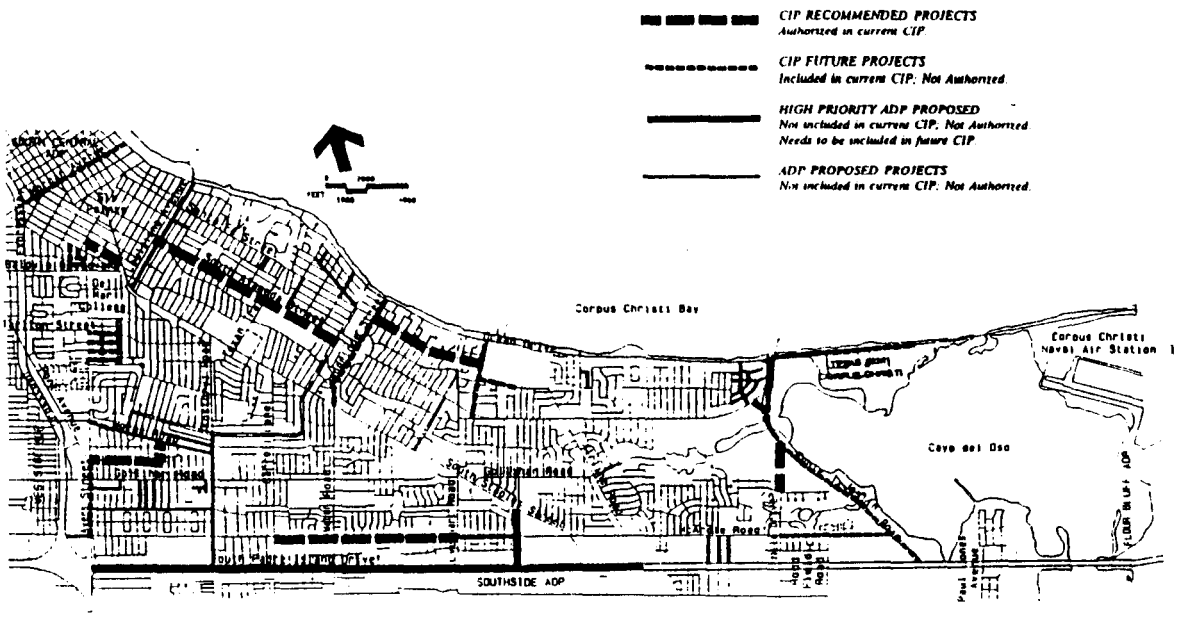
CAPITAL IMPROVEMENT NEED

Policy objectives in descending order of priority for improvements should be projects that will efficiently serve the Southeast Area with emphasis on:

- **a. Completion of currently authorized street projects;**
- **b. Improve entry/exit access and traffic capacity enhancements for the SH 358 (SPID) expressway and other arterial and collectors streets as identified in the "Analysis of Retail Development and Adjacent Transportation Infrastructure in the City's Southside," and MPO study from FY 92/93;**
- **c. Improving access to and from Texas A&M University-Corpus Christi; and**
- **d. Relieving of congestion and creating a safer pedestrian environment on Ocean Drive.**

The following is a prioritized list of transportation improvement projects (see Figure 9) for the Southeast area. This prioritized list is subject to change during the City's annual capital improvement prioritization process. The list is broken down into four categories:

FIGURE 9 TRANSPORTATION IMPROVEMENT PLAN



■ a. CIP Recommended Projects - authorized in current Capital Improvement Program;

1) McArdle Road - Everhart Road to Carroll Lane - curb/gutter/sidewalk improvements.(Funded with 1986 bond monies; construction scheduled to be completed in 1995)

2) Del Mar Neighborhood street improvements - street reconstruction and curb/gutter/sidewalk improvements. [Phase 2 (completed) & Phase 3 under construction by 1994, funded with 1986 bond monies; Phase 1 will be the last phase to be completed]

3) Street Overlay Program - Alameda Street between Louisiana and Doddridge; and Santa Fe Street between Doddridge Street and Robert Drive. (Approved in 1986 Bond Program - bond monies not sold)

4) Wynn Seale School Area street improvements - curb/gutter/sidewalk improvements. [Phases 1 (under construction) & 2 funded with CDBG monies; Phase 3 needs funding from future CDBG program]

5) Nile Drive - Ennis Joslin Road to Pharaoh Drive - curb/gutter/sidewalk improvements. (Approved in 1986 bond program; bond monies programmed to be sold in 1993 and construction to be completed in 1995) Construction of Nile Drive improvements will be coordinated with TxDOT's Spur 3/Ennis Joslin improvements.

6) Alexander and Greengrove Streets - curb/gutter/sidewalk improvements. (Approved in 1986 bond program as part of SPID/Ayers Street Area Streets; bond monies programmed to be sold in 1992 and construction to be completed in 1994)

7) Traffic Signal Improvements - Improve traffic control throughout the plan area through the use of "real-time" traffic responsive signal control.

8) Texas A&M University-Corpus Christi Access Improvements:

a) Ocean Drive, Alameda Street and Ennis Joslin Road Intersections;

b) Ennis Joslin Road - Alameda Street to SPID; and

c) Ocean Drive - Alameda to Texas A&M University-Corpus Christi.

■ b. CIP Future Projects - included in current CIP, however, not authorized:

9) McArdle Road - Everhart Road to Holmes Street - street widening and curb/gutter/sidewalk improvements.

10) Ayers Street - Port to Nemec - street widening and curb/gutter/sidewalk improvements.

11) Robert Drive - Ocean Drive to Alameda Street - street widening and curb/gutter/sidewalk improvements.

12) Street Overlay Program:
a) Morgan - Ocean Drive to Crosstown Expressway; and

b) Doddridge - Ocean Drive to Staples Street.

13) Horne Road - Ramsey Street to Kostoryz - curb/gutter/sidewalk improvements.

14) Sidewalk Improvement - Cole Park.

15) Divert existing through traffic on Everhart Road east of Alameda away from Aberdeen Street.

16) McArdle Road - Nile Drive to Ennis Joslin Road - street widening and curb/gutter/sidewalk improvements.

17) Santa Fe/Third Street Connection. (See Figure 11)

18) Bonita Addition Street Improvements - curb/gutter/sidewalk improvements.

19) Southmoreland Addition Street Improvements - curb/gutter/sidewalk improvements.

20) Gaines Street - Robert Drive to Ashland Street - curb/gutter/sidewalk improvements.

21) Crosstown Expressway pedestrian barriers.

■ c. High Priority ADP Projects not included in current CIP and should be added to the CIP Recommended category.

22) Facilitate traffic capacity along SPID frontage roads and signalized interchanges. Possible solutions include ramp reversal, ramp relocation, ramp scissoring, signalized signal control along frontage roads, etc. Other possible solutions may be derived from the MPO study entitled "Analysis of Retail Development and Adjacent Transportation Infrastructure in the City's Southside."

23) Mustang Trail - extend as a network serving collector between South Staples Street and South Padre Island Drive.

24) Alameda Street - Ocean Drive to Ennis Joslin Road - improvements to accommodate Texas A & M University - Corpus Christi (TAMU-CC) increased student population.

25) Ennis Joslin extension to Alameda - through the northeast portion of Oso Beach Municipal Golf Course. This street improvement would require the rearrangement of several golf holes.

26) Santa Fe Street widening - Doddridge to extension of Everhart Road. The extension of Everhart Road to Santa Fe would also require the narrow pavement width within the section of Santa Fe to be widened to provide minimum 11 feet wide travel lanes.

■ d. ADP Proposed Projects not included in current CIP and should be included in the Future CIP category.

27) Kostoryz Road - SPID to Brawner Parkway - increase from four lanes to five lanes with a continuous center left turn lane.

28) Houston Street - Kostoryz to Greengrove - street widening and curb/gutter/sidewalk improvements.

29) Louisiana Boulevard (northbound only) - Ocean Drive to Staples reconstruction of the street, and Lawnview Street - Louisiana to Texas - curb/gutter/sidewalk.

30) Ayers Street - Ocean Drive to Six Points - street reconstruction.

31) Morgan Street - Ocean Drive to Crosstown Expressway - street widening and curb/gutter/sidewalk improvements.

32) McArdle Road Extension - Ayers to Crosstown Expressway.

33) Sunnybrook Area Streets - curb/gutter/sidewalk improvements.

34) Rossiter Street - Alameda to Santa Fe - curb/gutter/sidewalk improvements.

35) Glazebrook Street - Alameda to Santa Fe - curb/gutter/sidewalk improvements.

36) Wray Lane - Paloma to Jarvis - curb/gutter/sidewalk improvements.

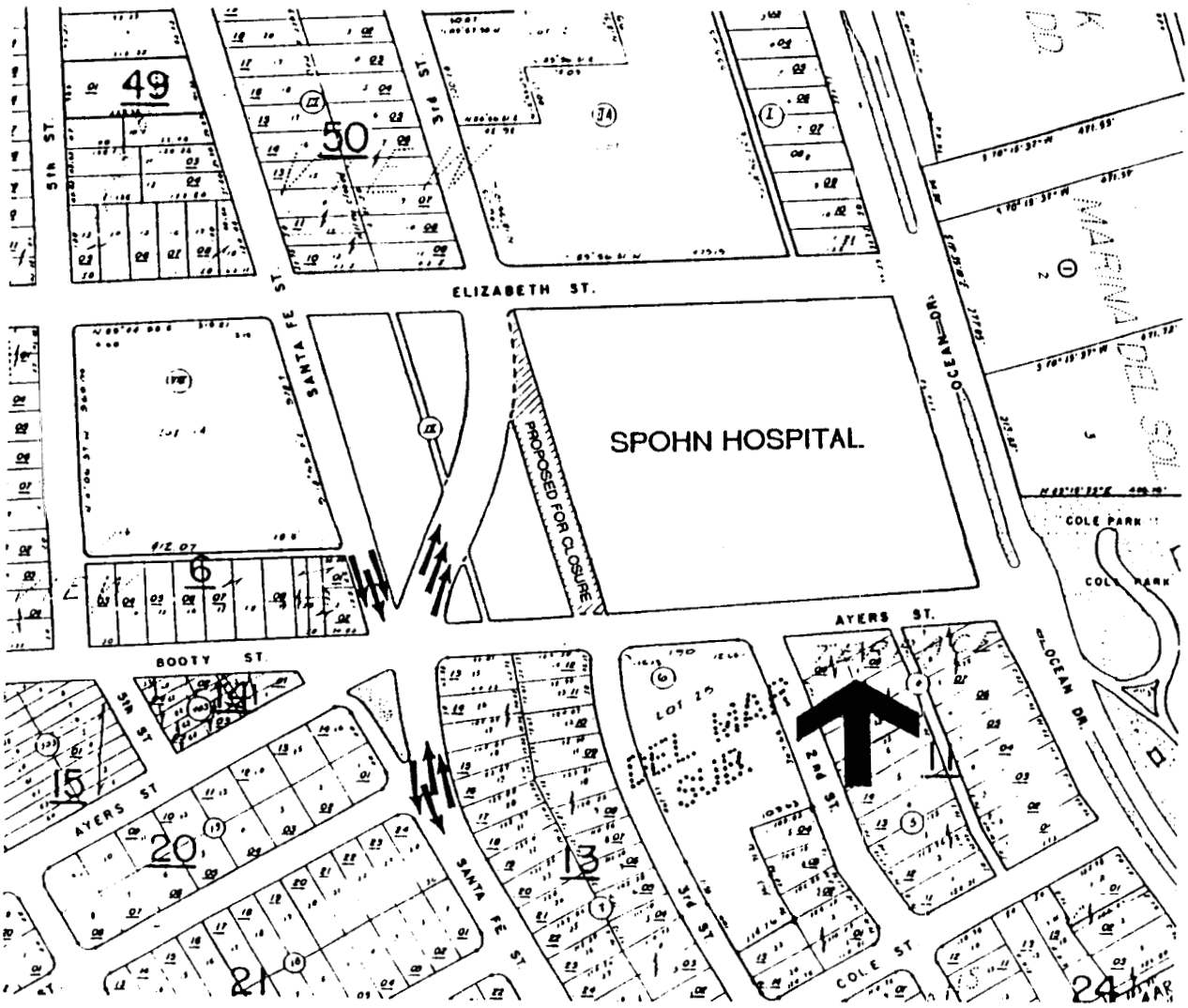
37) Aransas Cliffs Area Streets - curb/gutter/sidewalk improvements.

38) Daly/Clare Area Streets - curb/gutter/sidewalk improvements.

39) Kentner Street - Clairmore to Glenmore - curb/gutter/sidewalk improvements.

40) Edgewater Terrace Area Streets - curb/gutter/sidewalk improvements.

FIGURE 10 REALIGNMENT OF THIRD STREET WITH SANTA FE STREET



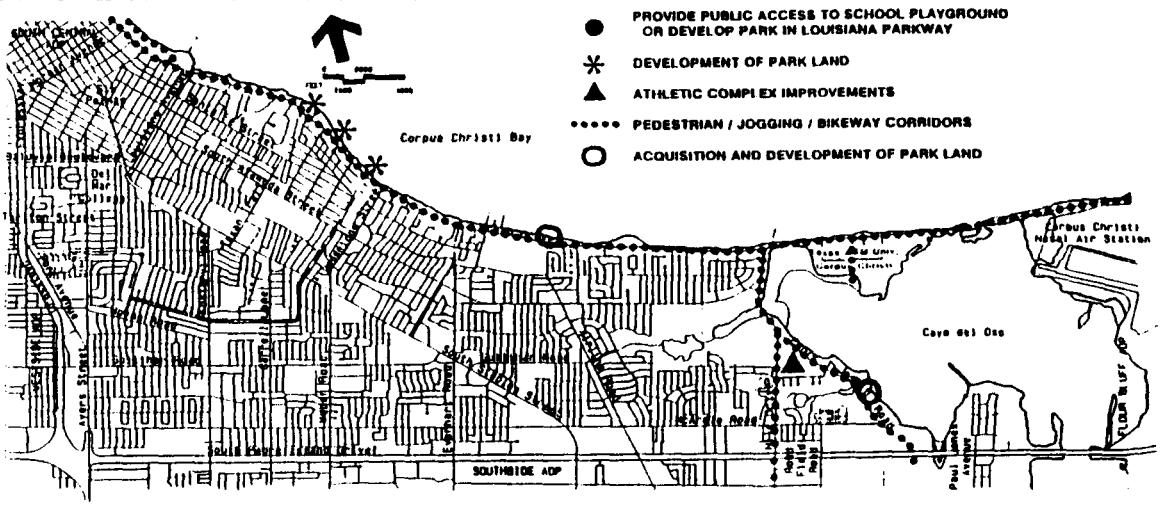
D. PUBLIC UTILITIES AND SERVICES

PARKS AND RECREATION

POLICY STATEMENT D.1

The City Council adopts this Parks Facilities Plan as a guide for future Southeast Area park improvements. (See Figure 11)

FIGURE 11 PARK FACILITIES PLAN



POLICY STATEMENT D.2

CAPITAL IMPROVEMENT NEED

Adequate funds for the following prioritized improvements should be included in future capital improvement programs:

- **a. Public access to Menger Elementary playground should be pursued with CCISD. If access cannot be provided, the City should develop a neighborhood park within Louisiana Parkway between Alameda and Santa Fe Streets;**

- **b. Renovate existing parks;**

- **c. Develop the Bay Trail pedestrian/bikeway. Note, the Traffic Engineering Division, Park and Recreation Department, and the Planning and Development Department are formulating a comprehensive areawide bikeway plan.**

- **d. Use of private and governmental facilities for more efficient service delivery of both recreational and senior community services;**

- **e. Improve drainage, parking, concession and restroom facilities, lighting, fencing and other needed improvements for the athletic complexes at Price, Botsford and South Guth Parks; and**

- **f. Purchase and develop bayfront view vista points at the:**

  1) Intersection of Ocean Drive and Airline Road; and

  2) Outfall area of the Pharaoh Country Club drainageway.

POLICY STATEMENT D.3

As redevelopment occurs in the Southeast area the park system should be evaluated (at least every five years) to figure out the need for existing parks. Where residential areas have been redeveloped for commercial uses, existing parks should be considered for designation as surplus property and sold. Where feasible, the proceeds from sale of surplus park land (referendum required) should be set aside for improvements to those parks most likely to serve nearest residential neighborhoods.

POLICY STATEMENT D.4

The City should continue to encourage park land purchase, donation and dedication along the Corpus Christi Bay and the Cayo Del Oso.

SENIOR COMMUNITY SERVICES

POLICY STATEMENT D.5

Additional senior community services should utilize expansion of existing recreational centers and senior community facilities, and possibly existing religious, educational and commercial facilities. This will provide senior services more effectively, allowing for maximum flexibility as recreation needs change while reducing the need for costly new structures.

WATER AND WASTEWATER SYSTEMS

POLICY STATEMENT D.6

Conduct critical analysis and needs assessment of the water distribution and wastewater collection systems. One of the most critical service issues facing the Southeast area is the failure rate of the ageing water and wastewater distribution and collection systems. This assessment should include a long-range improvement program which addresses replacement needs of deteriorating infrastructure. This assessment should also take into account projected long-range uses according to the proposed Land Use and Development Plan. These studies will help to prioritize and target capital improvements and assure replacement and, where necessary, upgrades to the existing water/wastewater systems.

POLICY
STATEMENT
D.7
CAPITAL IMPROVEMENT NEED
Provide increased water supply and wastewater collection capacity to Texas A&M University-Corpus Christi to meet the anticipated needs of the University's programmed expansion. For planning purposes these improvements should, at a minimum, provide sufficient capacity to accommodate growth for a full-time equivalent student population of 3,000 for 1994, 4,500 for 2000, and 9,000 for 2010. These improvements should be coordinated with planned improvements to the roadway of Ocean Drive, and proposed expansion of gas, wastewater, electrical, telephone, and cable services.

STORMWATER SYSTEM

POLICY
STATEMENT
D.8
Amend the Master Stormwater Drainage Plan for the Southeast Area as well as the rest of the City to comply with the U.S. Water Quality Act of 1987. The City's Engineering Services Department should initiate a study to amend the Master Stormwater Drainage Plan and any other affected plans such as the Urban Transportation Plan, etc., to comply with this Act.

NATURAL GAS SYSTEM

POLICY
STATEMENT
D.9
Continue the present policy to provide service as development occurs, including providing expanded service to Texas A&M University-Corpus Christi.

COMMUNITY DEVELOPMENT SERVICES

POLICY
STATEMENT
D.10
City housing rehabilitation programs should only be used in areas where residential land use is recommended and where residential zoning exists.

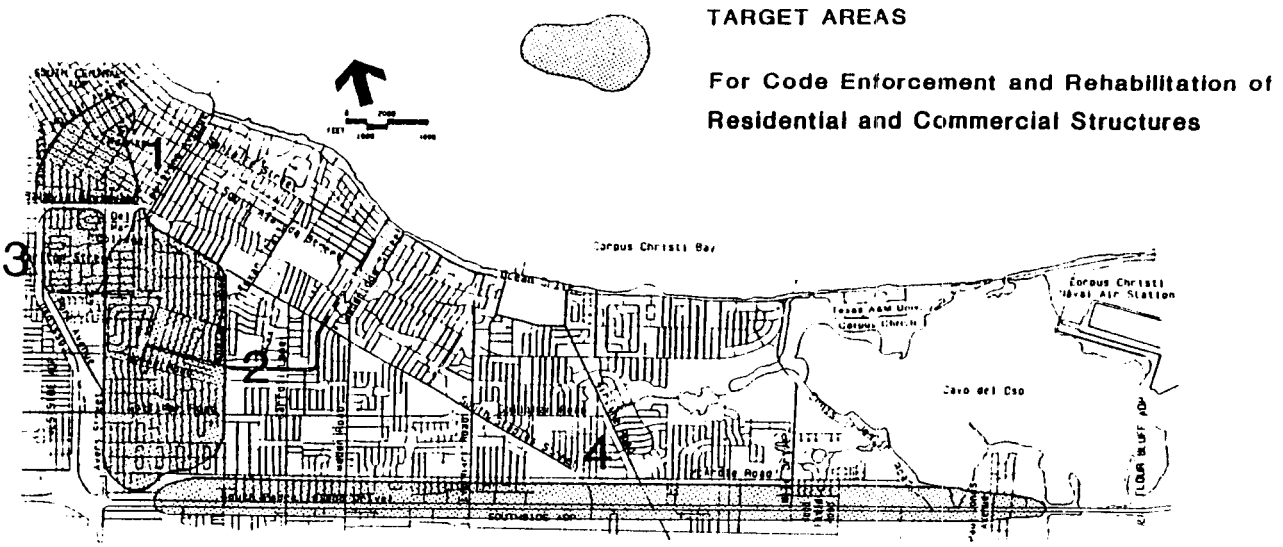
POLICY
STATEMENT
D.11
Community Development should target code enforcement and rehabilitation programs for those areas with the most severe housing, commercial, sanitation, brush pick-up, and animal control problems. Areas 1, 2, and 3 (see Figure 12) are characterized by a wide range of housing conditions. It is important that the city actively promote code enforcement and rehabilitation programs to prevent further deterioration of property and to help prevent the spread of such deterioration to adjacent neighborhoods to the east. Furthermore, to assist in conserving these

neighborhoods the City should, when funds area available, improve substandard neighborhood streets without requiring property owner assessments.

The commercial areas in Area 4, along SPID, are also targeted as this is one of the most visible and highly traveled corridors in the City. Code compliance and overall community appearance from SPID along this corridor is especially important since it is the only route through the city to the barrier island visitor areas.

As part of the periodic comprehensive plan review procedure, the City should reevaluate the target areas and establish whether these areas should continue to be targeted, re-prioritized, or if other areas should be included in the program.

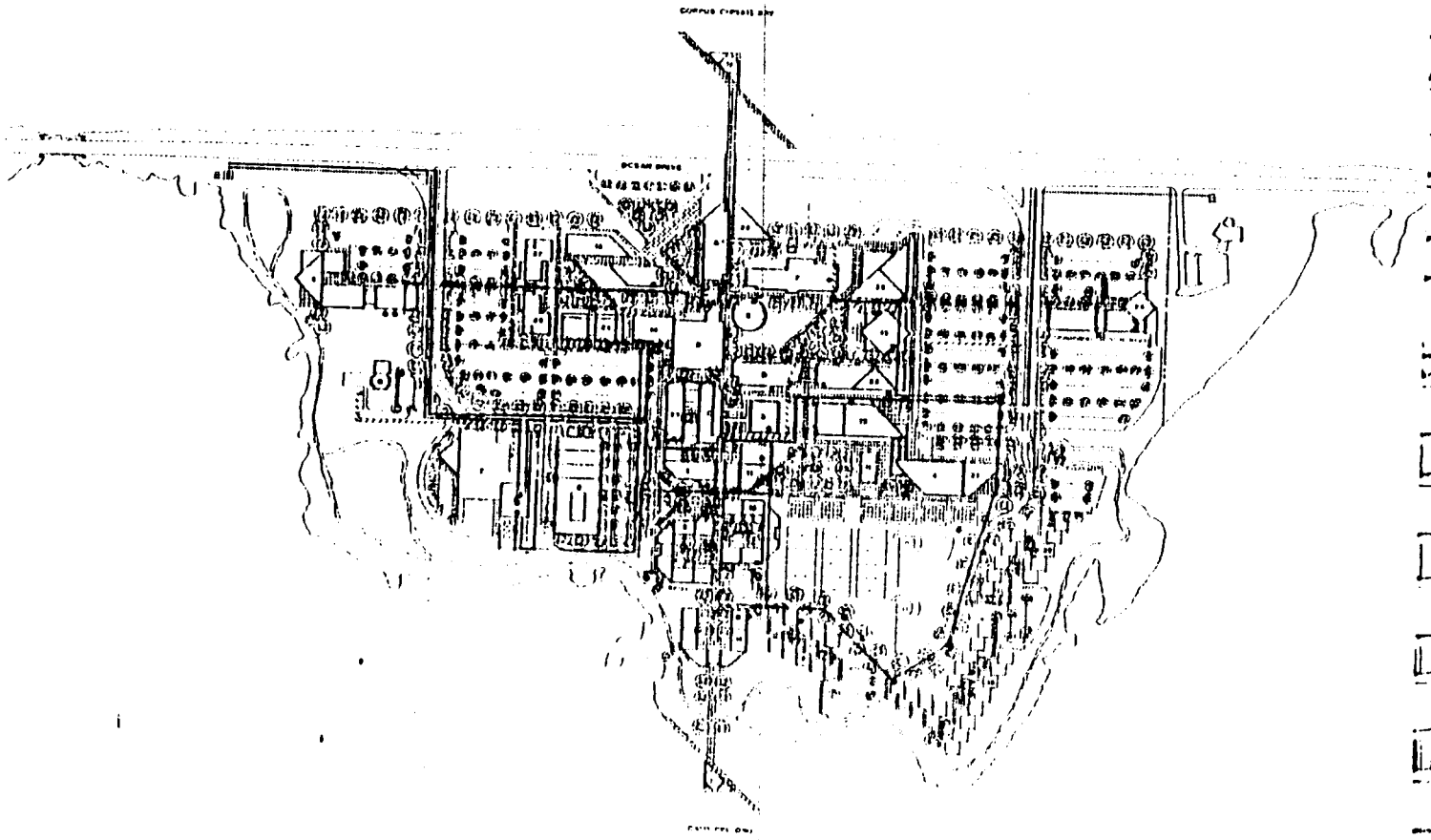
FIGURE 12 CODE ENFORCEMENT TARGET AREAS



CC54

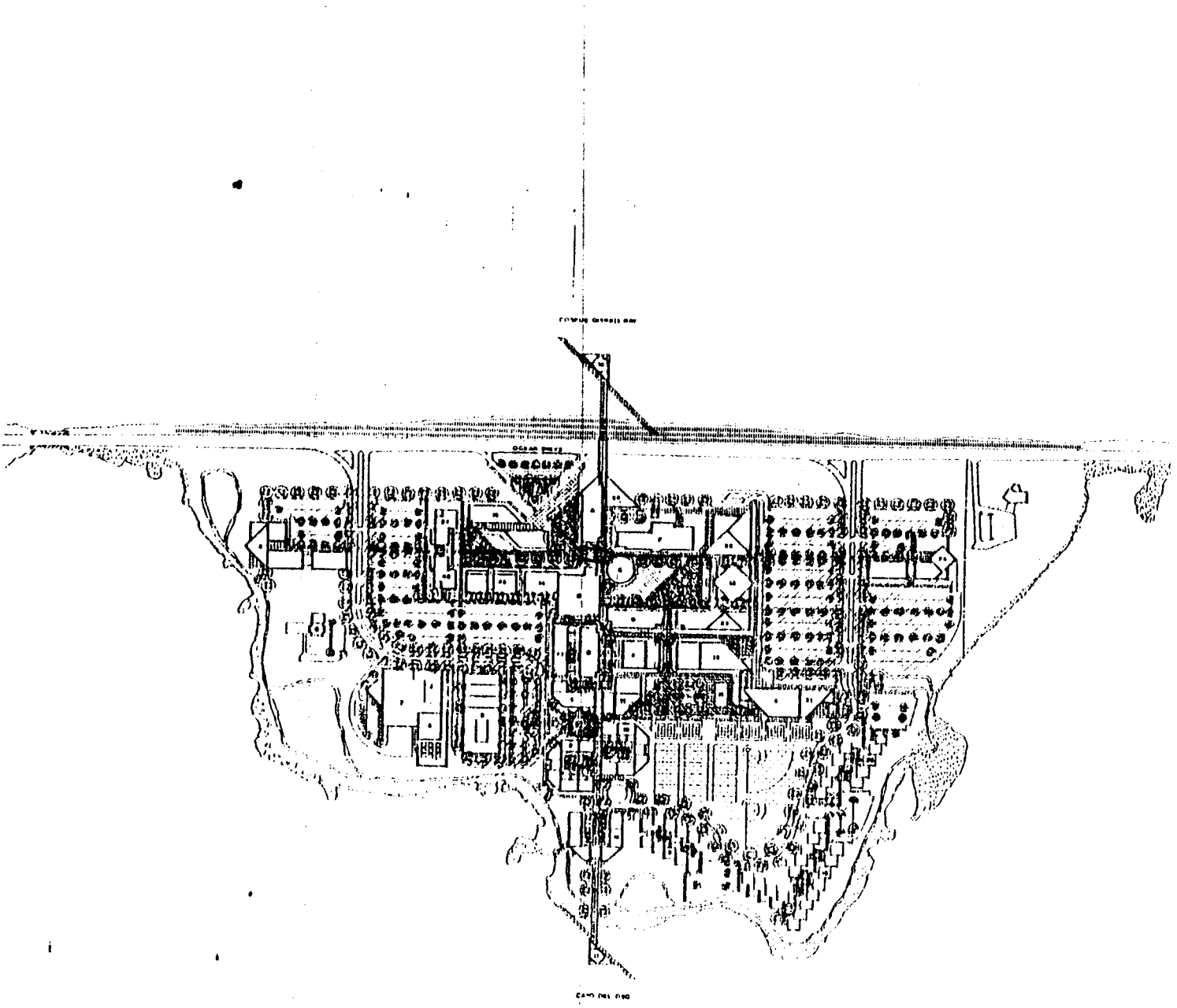
MASTER

PLAN



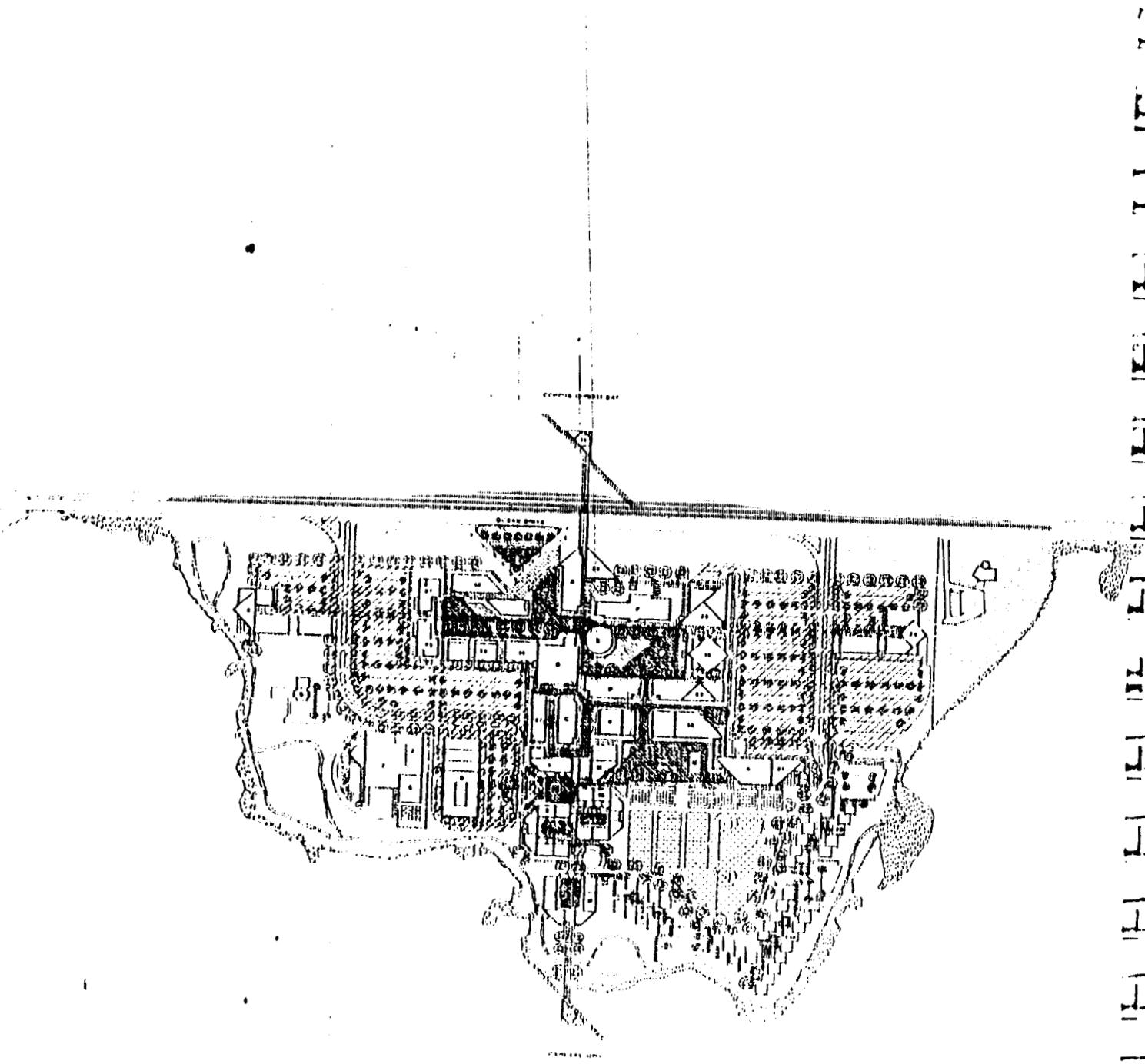
Legend

- Parking
- Delivery Vehicles
- Auto Access
- Maintenance/Emergency



Legend

- Oasis Zone
- Roadways and Parking Lot Zone
- Play Fields Zone
- Semi-Natural Zone
- Natural Area Zone
- Corpus Christi Bay Front Zone



Legend

- Oasis Zone
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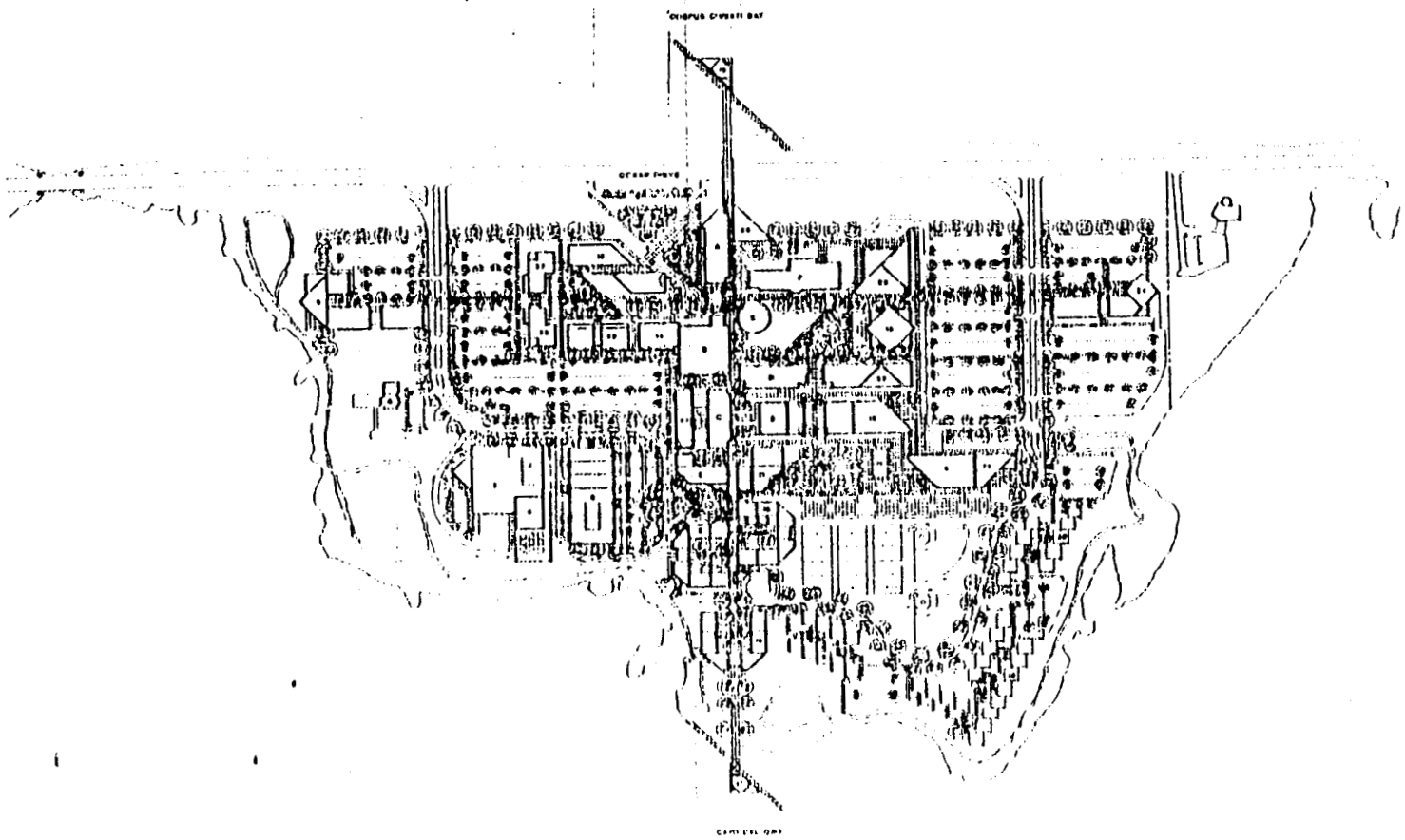
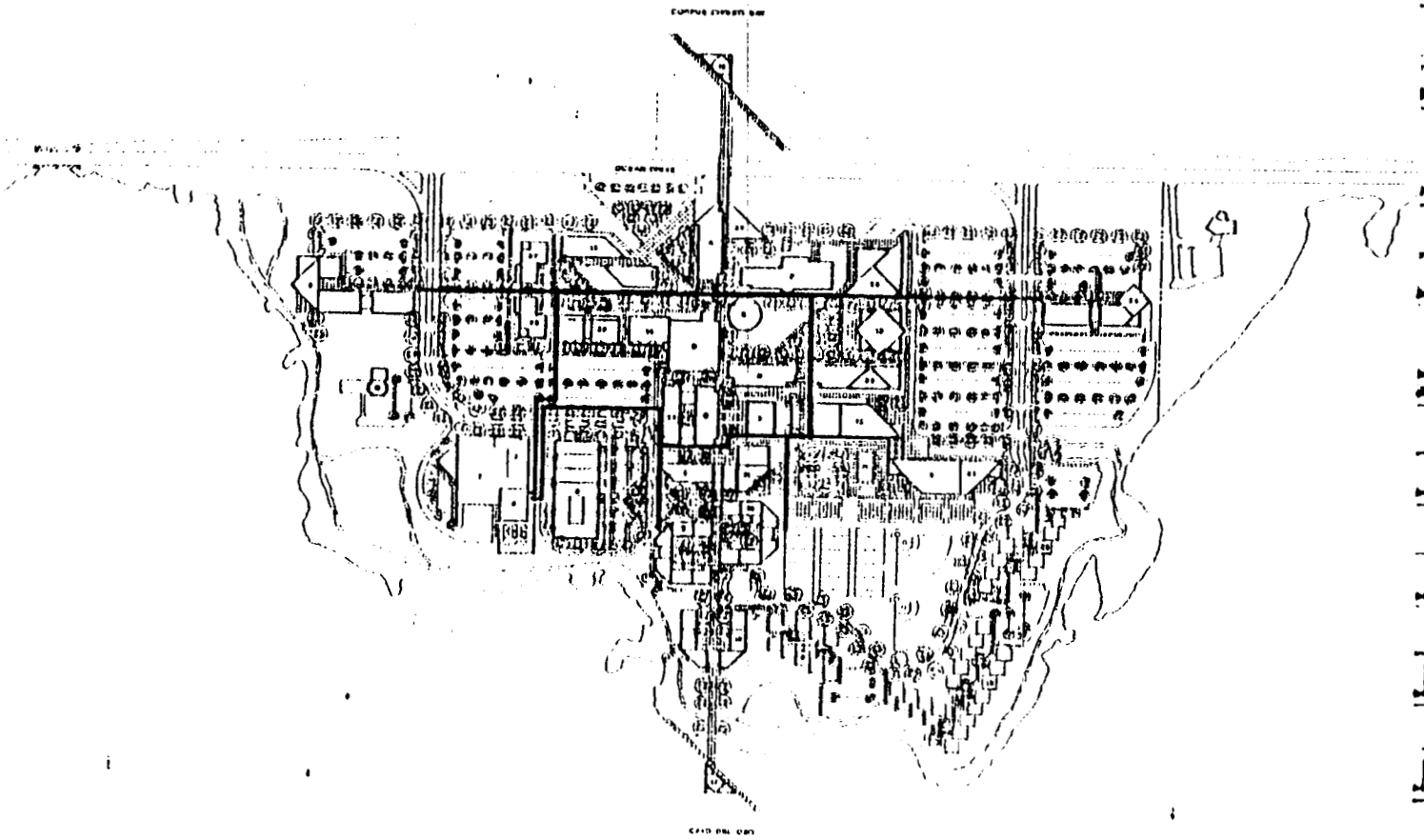


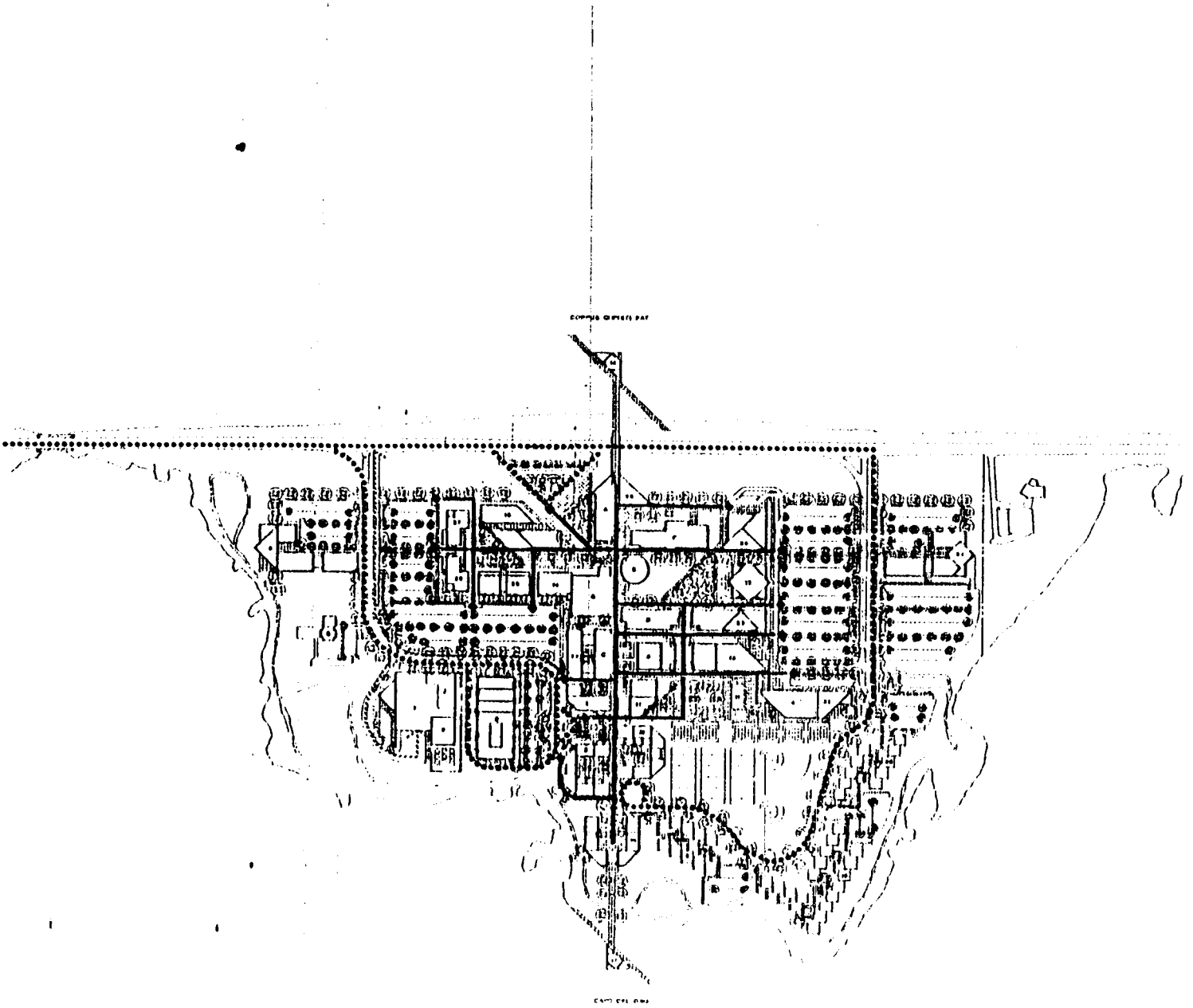
Legend

- Special Lighting
- Roadways and Parking
- Pedestrian Zones



Legend

— Direct Buried Heating & Chilled Water



Legend

- Existing 12.0 KV Main Feeder
- Existing 12.0 KV Branch Feeder
- New 12.0 KV Main Feeder
- New 12.0 KV Branch Feeder
- Existing Switching Station
- New Switching Station
- Existing Transfer
- New Transformer
- Power Metering KWHM

The ADP incudes an Inventory and Analysis Report which describes existing conditions and background information. The Inventory and Analysis Report is available upon request from the Planning and Development Department.

PLAN GOALS AND OBJECTIVES

The guiding goals and objectives for the entire City and Extraterritorial Jurisdiction (ETJ), including the Flour Bluff Area, are contained in the Policy Statements adopted by the City Council in 1987.

The policies encompassed by this Plan address not only current issues, but needs that the City and Flour Bluff residents, property owners, and businesses perceive will become pressing in future years. Recognizing that not all suggested implementations will take place immediately, it is important to foresee and note problems and opportunities, and develop a long term strategy to address them.

The specific goals of the Flour Bluff Area Development Plan are to:

○ **a. Encourage or require responsible growth that will preserve the existing natural environment.** The environment in Flour Bluff is unique to Corpus Christi. Awareness of the value of wetlands as a natural resource and as retention ponds, and woodlands and brushlands for habitat are needed to avoid destruction of these important resources.

○ **b. Encourage sensible and appropriate development adjacent to Naval Air Station facilities.** The presence of the Naval Air Station is important to the economy of Corpus Christi and every effort should be made to encourage their continued operation.

○ **c. Creation of a clean, litter free environment with adequate public services.** Illegal dumping is a major concern on Flour Bluff, which effects the quality of life in the area.

Principal objectives:

○ **a. Protect the unique development pattern and environmental resources of the area. Objectives include:**

- ▸ Protect the Cayo del Oso and Laguna Madre.
- ▸ Continue large lot development in the southwest quadrant to maintain the distinct atmosphere established by existing development and use.
- ▸ Protect the environment through preservation and enhancement of environmentally sensitive areas.
- ▸ Create a zoning district which will protect environmentally sensitive areas.
- ▸ Preserve and enhance public access and recreational opportunities along the Laguna Madre and Cayo del Oso.

○ **b. Maintain the integrity of the Naval Air Station. This can be done by:**

- ▸ Creating zoning regulations which only allow densities and uses that are compatible in Naval Air Station Air Installation Compatible Use Zone areas.

○ **c. Propose appropriate land uses and a compatible transportation network to serve future land uses.**

○ **d. Facilitate infrastructure planning through a reasonable estimate of future land use and densities.**

○ **e. Use Community Development Block Grant loan programs and funds to rehabilitate neighborhoods.**

○ **f. Organize vehicular movement through the area, establishing gateways/entrances, pedestrian and vehicular pathways as practical.**

○ **g. Revitalize deteriorated housing and promote new residential development consistent with the Comprehensive Plan and not in conflict with infrastructure availability, Air Installation Compatible Use Zones, flood plains or other factors.**

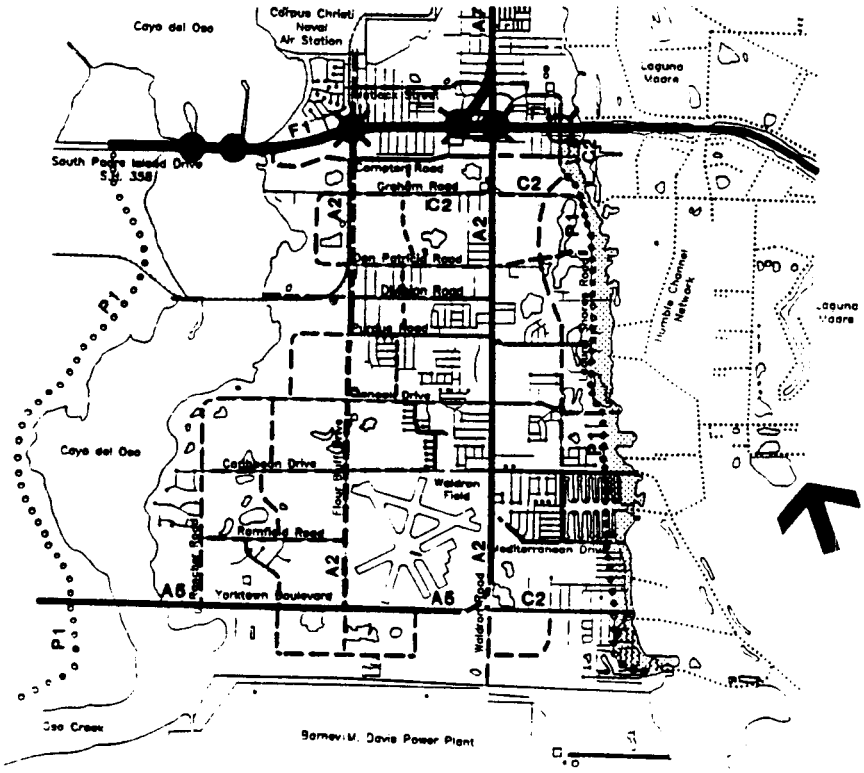
A. ENVIRONMENT

POLICY STATEMENT A.1

To protect the sensitive shoreline environment of the Laguna Madre by creating an overlay zoning district between the shoreline and Laguna Shores Road. (see Figure 2). Creation of an overlay zoning district with site plan review would accomplish the following objectives:

- a. Protect environmentally sensitive lands.
- b. Ensure the best use of private and public open spaces.
- c. Establish design control for shoreline areas, i.e. signage, landscaping, etc.
- d. Protect water quality in the Laguna Madre in keeping with National Pollutant Discharge Elimination System (NPDES) mandates.
- e. Preservation of views from public rights-of-way to public bodies of water.

FIGURE 2 LAGUNA SHORES OVERLAY AREA



Laguna Shores Overlay Zone

POLICY STATEMENT A.2

The City should designate the Cayo Del Oso basin as a wildlife area between Ocean Drive and Weber Street. Power/motorized boating should be prohibited in this area.

POLICY STATEMENT A.3

The City should continue to work with State and Federal agencies to balance protection of the environment with the development needs of the community. This is especially important in Flour Bluff where many public and privately owned lands contribute to the Bay area and coastal ecosystem.

POLICY STATEMENT A.4

All public and private construction should be in accordance with Federal Emergency Management Agency (FEMA) standards. Compliance with these standards will ensure continued availability of flood insurance to the community through the National Flood Insurance Program. Public and private construction should be in accordance with State and Federal programs (e.g. Environmental Protection Agency, Army Corps of Engineers).

POLICY STATEMENT A.5

The City will continue to work with the Texas Water Commission to address the discharge of wastes in the City's stormwater system by residential, commercial and industrial uses. The City should initiate a program to increase public awareness of the need to protect water quality by properly disposing of wastes.

POLICY STATEMENT A.6

The City encourages the use of drainage channels as a land use separator between residential and non-residential uses. Use of drainage facilities to separate land uses helps to create a definite edge to a neighborhood and prevent encroachment of non-residential activities.

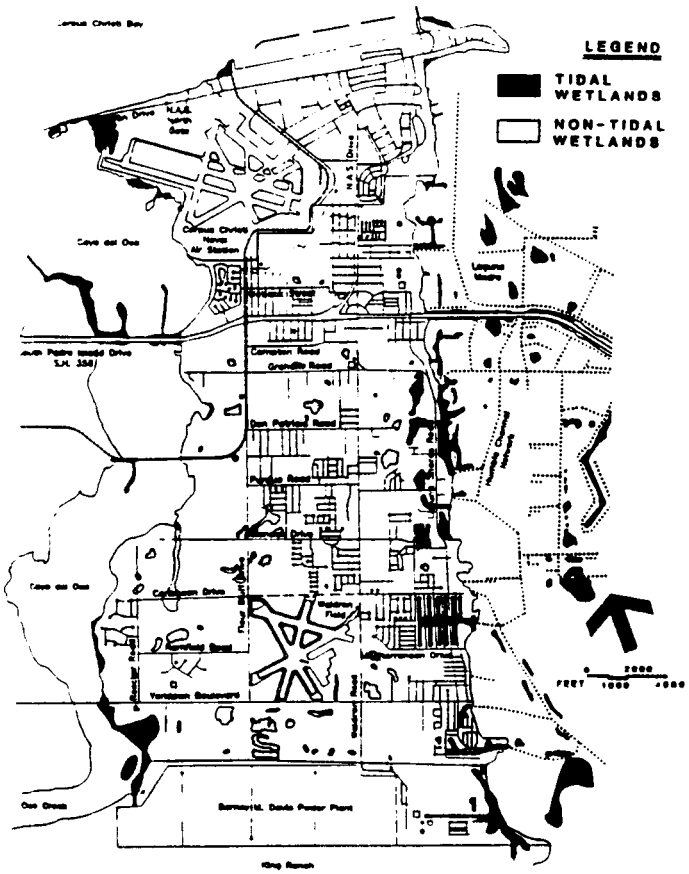
POLICY STATEMENT A.7

Where feasible, the City will encourage drainage channels in residential areas to be of a swale type design as they are more compatible with residential development than the traditional "v" type ditch. Swale type drainage channel allow the opportunity for park like amenities, sidewalks/bike paths while providing flood protection. Such drainage facilities should be located to provide a connection between neighborhoods and, schools, parks, recreation centers and other public places. Natural ground cover rather than concrete liners are preferred.

POLICY STATEMENT A.8

The City will amend the City Code (Sec. #23-68 & #23-71) requiring vacant lots be completely mowed, so that large lots of one (1) acre or more are required to have a 50 foot swath where they abut structures, and a 30 foot swath where such lots abut public rights-of-way. Currently owners of large vacant lots must keep a 50 foot swath clear even when such properties abut vacant lots. This policy change would preserve beneficial habitat and reduce maintenance costs to owners of public and private property.

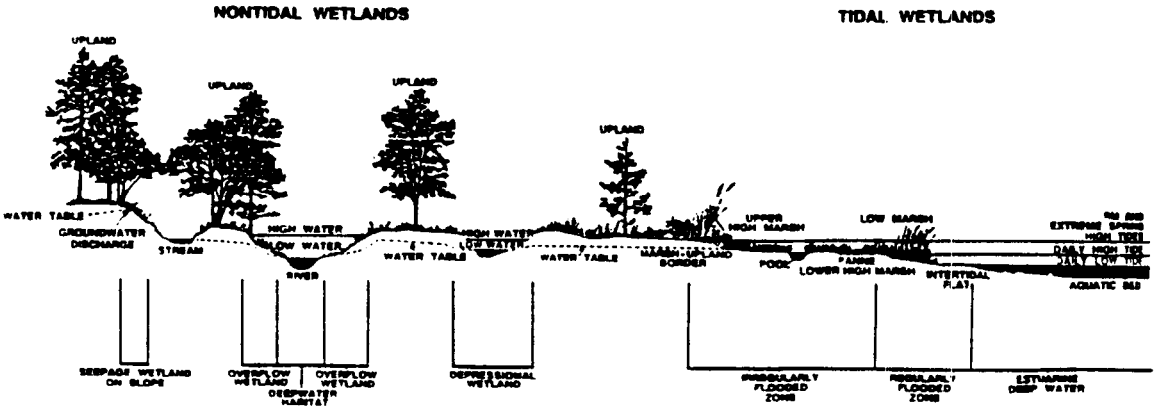
FIGURE 3 WETLAND AREAS



POLICY STATEMENT A.9

The City should encourage groups familiar in habitat objectives to assist in a program to document the location of threatened and endangered species habitats in Flour Bluff. Flour Bluff contains numerous wetland areas and the only remaining stands of live oak brush potholes in Nueces County. According to the U.S. Fish and Wildlife Service these areas contain a wide array of fish and wildlife, possibly including threatened or endangered species. (see Figures 3, 3a, 4 and Appendix A) If these habitats are found, they should be prioritized by the City relative to other such habitats found in the region. A Regional Habitat Conservation Plan is necessary to adequately evaluate and prioritize habitats.

FIGURE 3 A WETLAND SCHEMATIC

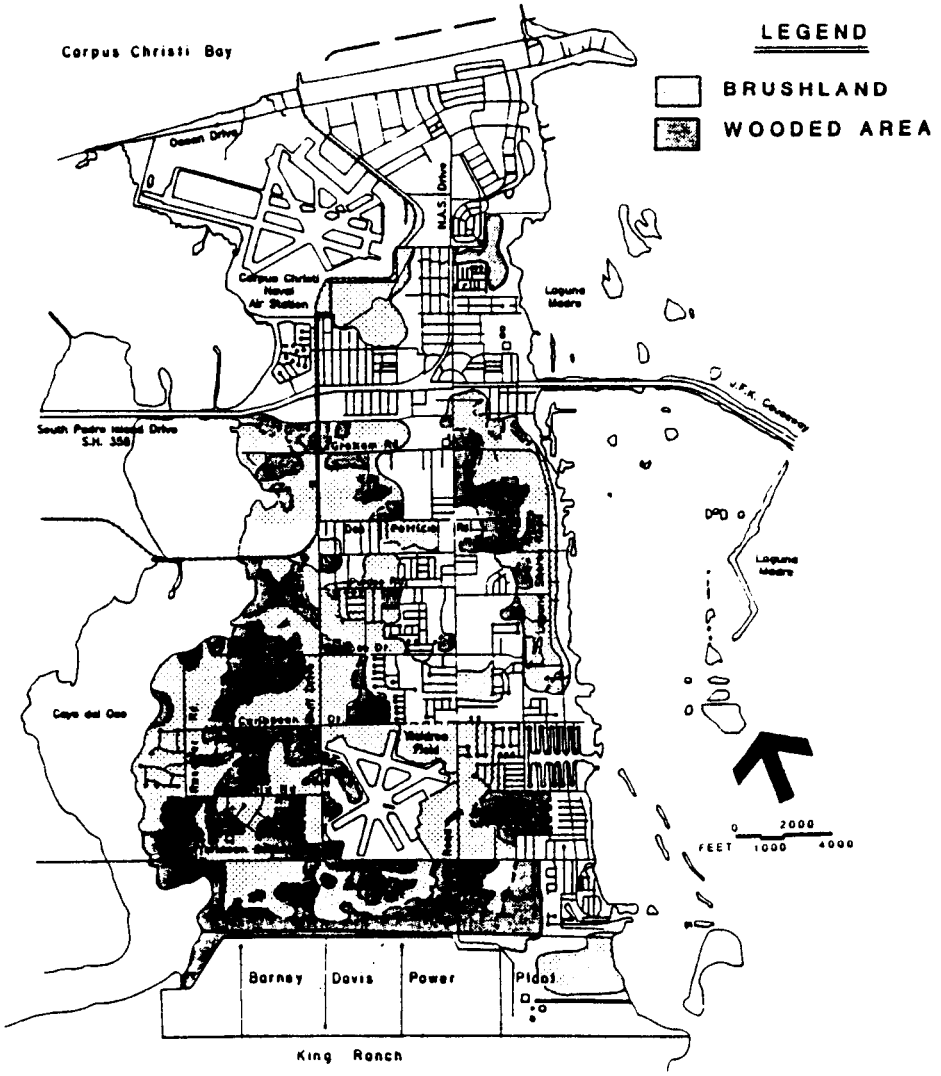


Once prioritized by the City, the City may designate the highest priority areas for acquisition and development restrictions. Lower priority areas could be considered for development restrictions only. Funding for purchase of such habitats could come from local sources or from State/Federal grants.

Development restrictions would allow some development of property with requirements to minimize loss of habitats i.e., larger setbacks, larger open space requirements. A conservation easement program combined with a property tax incentive could also be used to encourage preservation of valuable habitats.

It is important to note that the Governor has recently submitted the region for inclusion in the National Estuary Program. In the Governor's submittal, a major goal is the protection of endangered and threatened species habitats as the Flour Bluff area is of vital importance to the nation as much of the migratory birds depend on these local habitats.

FIGURE 4 BRUSHLAND•WOODED AREAS



POLICY STATEMENT A.10

The City Park and Recreation Department will coordinate with City Engineering Services and U.S. Corps of Engineers to establish a program to monitor Laguna Madre and Cayo del Oso shoreline erosion. Where feasible, scheduled shoreline maintenance and capital improvements should be used to control erosion along City owned shoreline areas.

POLICY STATEMENT A.11

Maintain the one-mile minimum distance from the shoreline for any drilling operations.

B. LAND USE

PLAN STATEMENT B.1

The City Council, hereby, adopts the Land Use Plan (Figure 5) and accompanying text, as a guide for future land use decisions. The Plan provides guidance for future development decisions including rezoning, platting, public services, and capital improvement planning. The land use plan supports environmentally sound development in Flour Bluff. The plan provides a compatible configuration of activities emphasizing:

- a. Protection of residential areas;
- b. Identification of environmentally sensitive areas that should be preserved;
- c. Protection of the Naval Air Station from incompatible activities; and
- d. A parkway along the Laguna Shores shoreline.

The future land use plan recommends those uses which are "most suitable." However, other uses which may also be acceptable are described in Table 1. Those uses described as "also acceptable are more likely to require special buffering to assure compatibility with adjacent uses, or perhaps some other improvements in order to meet the full intent of the Comprehensive Plan.

Table 2 indicates the total acreage of future land uses and potential population of an ultimately developed Flour Bluff area.

POLICY STATEMENT B.2

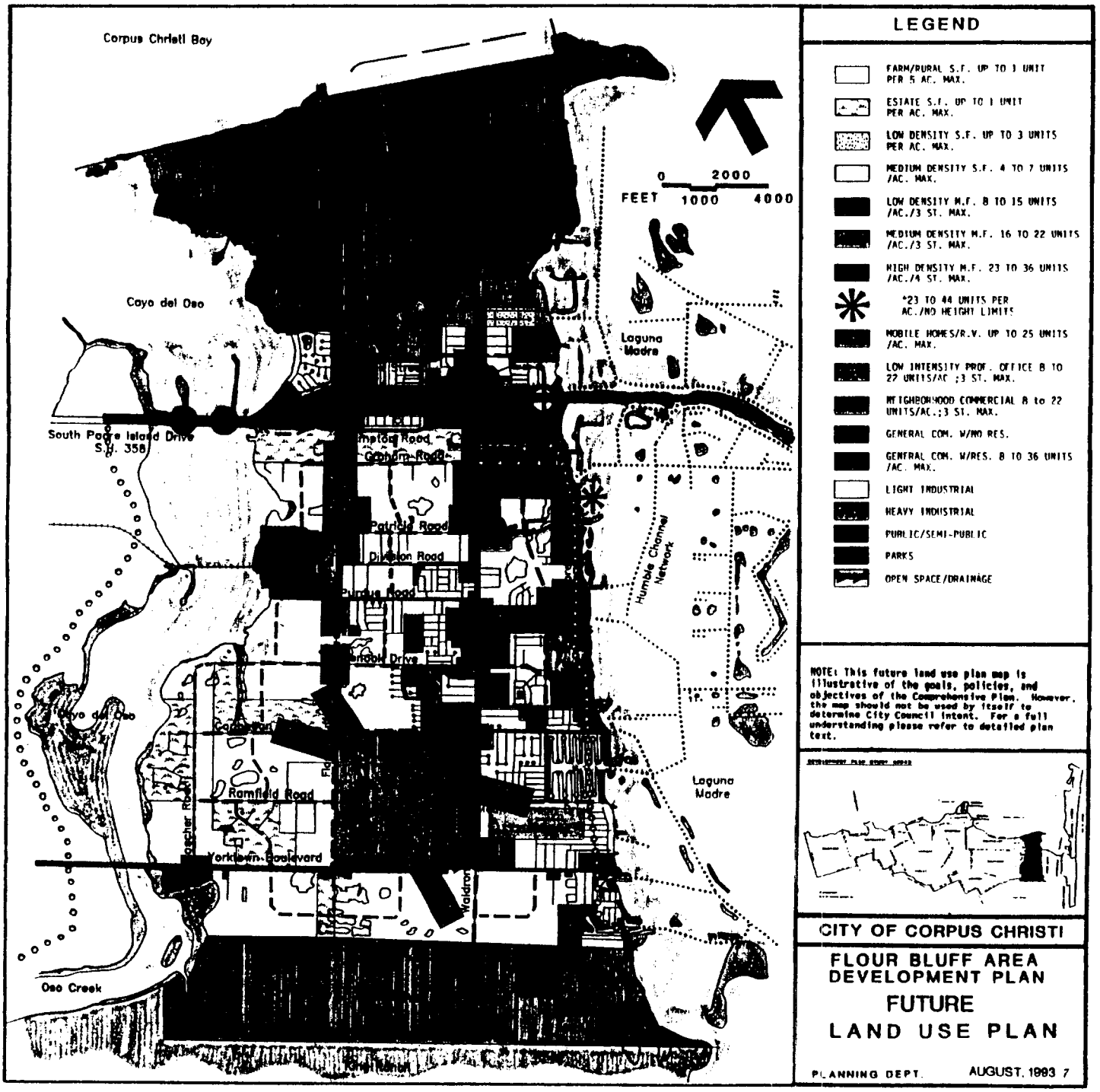
In Table 1, Future Land Use Suitability, the "most suitable land use" column indicates those land uses least likely to cause negative impacts to the surrounding area and which are thought to most directly benefit the public health, safety and welfare of the community. Uses described as "also acceptable" might be permissible but they are likely to be negatively impacted by the most suitable use or surrounding uses unless steps are taken to buffer negative impacts. Steps that should be taken to prevent negative impacts and promote sensitive design are:

- **a. Lighting from non-residential uses should be directed away from residential areas.**

- **b. Noise impacts from non-residential uses should be reduced by creating a buffer open space between the two areas. Such spaces may be landscaped areas, a street, a screening fence, larger setbacks, etc. These methods can be used singularly but are usually most effective when applied in combination to provide the desired effect.**

- **c. Placing low intensity activities next to single family uses.**

- **d. Because non-residential areas are considered most suitable next to higher level roads, "also permitted" uses will need to be buffered from negative traffic noise impacts if they are located immediately next to the highway.**


Corpus Christi Bay
Cayo del Oso
South Padre Island Drive
S.H. 358
Graham Road
Patricia Road
Division Road
Purdue Road
Norfolk Drive
Ramfield Road
Yorktown Boulevard
Waldron
Laguna Madre
Humble Channel Network
Oso Creek
0 2000
FEET 1000 4000
LEGEND
FARM/RURAL S.F. UP TO 1 UNIT PER 5 AC. MAX.
ESTATE S.F. UP TO 1 UNIT PER AC. MAX.
LOW DENSITY S.F. UP TO 3 UNITS PER AC. MAX.
MEDIUM DENSITY S.F. 4 TO 7 UNITS /AC. MAX.
LOW DENSITY M.F. 8 TO 15 UNITS /AC./3 ST. MAX.
MEDIUM DENSITY M.F. 16 TO 22 UNITS /AC./3 ST. MAX.
HIGH DENSITY M.F. 23 TO 36 UNITS /AC./4 ST. MAX.
*23 TO 44 UNITS PER AC./NO HEIGHT LIMITS
MOBILE HOMES/R.V. UP TO 25 UNITS /AC. MAX.
LOW INTENSITY PROF. OFFICE 8 TO 22 UNITS/AC ;3 ST. MAX.
NEIGHBORHOOD COMMERCIAL 8 to 22 UNITS/AC.;3 ST. MAX.
GENERAL COM. W/NO RES.
GENERAL COM. W/RES. 8 TO 36 UNITS /AC. MAX.
LIGHT INDUSTRIAL
HEAVY INDUSTRIAL
PUBLIC/SEMI-PUBLIC
PARKS
OPEN SPACE/DRAINAGE
NOTE: This future land use plan map is illustrative of the goals, policies, and objectives of the Comprehensive Plan. However, the map should not be used by itself to determine City Council intent. For a full understanding please refer to detailed plan text.
CITY OF CORPUS CHRISTI
FLOUR BLUFF AREA DEVELOPMENT PLAN
FUTURE LAND USE PLAN
PLANNING DEPT.
AUGUST, 1993 7

FLOUR BLUFF	**ALSO ACCEPTABLE**													
MOST SUITABLE FUTURE LAND USE	*FARM/RURAL*	*ESTATE DEN SF*	*LOW DEN SF*	*MEDIUM DEN SF*	*LOW DEN MF*	*MEDIUM DEN MF*	*HI DEN MF*	*MOBILE HOMES*	*LOW INT PROF OFF*	*NEIGHBORHOOD COM*	*COM W/NO RES*	*COM W/RES*	*LIGHT INDUSTRIAL*	*HEAVY INDUSTRIAL*
FARM/RURAL SF; Up to 1 Unit Per 5 Acres														
ESTATE DEN SF; Up To 1 Unit/Ac	√													
LOW DEN SF; Up To 3 Units/Ac	√	√												
MED DEN SF; 4 to 7 Units/Ac		√	√											
LOW DEN MF; 8 to 15 Units/Ac; 3 St Max			√	√										
MEDIUM DEN MF; 16 to 22 Units/Ac; 3 St Max				√	√									
HI DEN MF; 23 to 36 Units/Ac; 4 St. Max.				√	√	√								
MOBILE HMS/RV's; Up to 25 Units/Ac.														
LOW INTENSITY PROF OFFICE; 8 to 22 Units/Ac.;3 St. Max.					√	√								
NEIGHBORHOOD COM; 8 to 22 Units/Ac.;3 St. Max.					√	√			√					
GENERAL COMMERCIAL W/NO RESIDENTIAL									√	√				
GEN COM W/ RES; 8 to 36 Units/Ac.					√	√	√		√	√				
LIGHT INDUSTRIAL									√	√	√			
HEAVY INDUSTRIAL									√	√	√		√	

TABLE 1 - FUTURE LAND USE SUITABILITY

PROPOSED LAND USES	TOTAL ACREAGE	%	HOUSING UNITS	ULTIMATE POPULATION
Farm/Rural SF	390	3.4	78	187
Estate Density SF	407	3.5	407	977
Low Density SF	65	.6	130	312
Medium Density SF	2,243	19.4	12,337	29,609
Low Density MF	135	1.2	1,552	3,725
Medium Density MF	523	4.5	9,937	23,849
High Density MF	14	.1	413	991
Mobile Homes/RV's	186	1.6	2,418	4,392
Low Intensity Prof Office	1	.0		
Neighborhood Com	67	.6		
General Commercial w/No Res	377	3.3		
General Commercial w/Res	291	2.5		
Light Industrial	348	3.0		
Heavy Industrial	93	.8		
Public/Semi-Public	5,832	50.5		
Parks	253	2.2		
Open Space/Drainage	326	2.8		
Total	11,551	100.0	27,272	63,051

TABLE 2 FLOUR BLUFF DEVELOPMENT PLAN ULTIMATE DEVELOPMENT LAND USE ASSUMPTIONS

* Land Use Plan totals include the Naval Air Station (2,604 acres), Barney Davis Power Plant (2,000 acres) and Waldron Air Field (583 acres).

** Residential land uses are discounted by 25 percent to account for transportation needs.

*** Population estimates are totals for ultimate build out and are based on full occupancy, average household size of 2.4 persons, and a mid-point each residential density range.

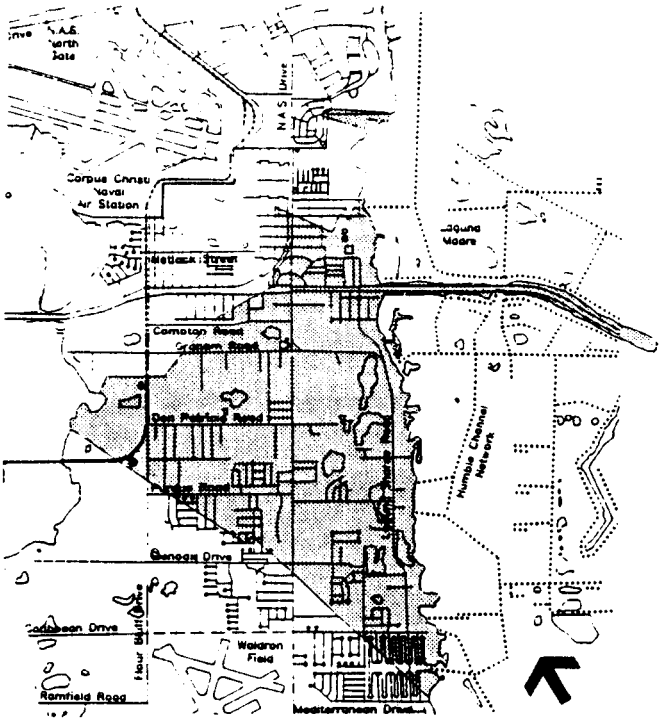
POLICY STATEMENT B.3

The City will change the Platting Ordinance to be consistent with State laws for on-site disposal systems. The Platting Ordinance requires only 15,000 square foot minimum lot size on site-disposal systems. State Law requires ½ acre minimum lot size (21,780 square feet) for a system on public water system, and one acre (43,560 square feet) minimum for systems when on-site water sources are used. (also see Policy Statement D.6)

POLICY STATEMENT B.4

The Joint Airport Zoning Board should consider amendments to the Airport Zoning Height Regulations in Flour Bluff to comply with the Horizontal Imaginary Surface Precision Instrument approach established by the Navy for the Naval Air Station. These regulations should also be amended for Waldron and Cabaniss fields if and when the Navy establishes a Precision Instrument Approach for them. (Figure 6) These proposed amendments should not compromise the planned expansion of Corpus Christi State University. Currently the Military Airport Zoning imaginary surface would allow development of a structure to heights greater than portions of the Navy's Imaginary Surface. Development of structures to these heights could jeopardize NAS operations in Corpus Christi. The Joint Airport Zoning Board should consider the continued presence of NAS operations a critically important aspect of the community.

FIGURE 6 AIRSPACE•IMAGINARY SURFACES



Areas where the existing Military Airport Zoning Ordinance would allow construction heights greater than (130' mean sea level) provided under the Horizontal Imaginary Surface (back-up to primary approach) established by the Navy for the Naval Air Station.

POLICY STATEMENT B.5

The City encourages development that is compatible with the Naval Air Station, Waldron Field, and Cabaniss Field. A primary concern associated with these Naval facilities is land use compatibility in the Navy's Air Installation Compatible Use Zones (AICUZ). These are areas where, due to frequency of over flights and other factors, a measurable potential for aircraft accidents is present. The geographic areas covered by these zones may change in the future due to changes in operations at the air fields, changes in the aircraft using the runways or other factors. The City should maintain constant contact with the Navy to maintain accurate record

of any changes to these zones and change as appropriate any city regulations pertaining to these AICUZs.

Within AICUZs there are three areas with different degrees of accident potential: Clear Zones (CZ); Accident Potential Zone 1 (APZ-1); and Accident Potential Zone 2 (APZ-2). Naval guidelines suggest that Clear Zones be purchased by the Navy as they are the most hazardous areas. Accident Potential Zone 1 is the second highest area of concern and Accident Potential Zone 2 is least hazardous of the three areas.

Existing zoning ordinance regulations do not comprehensively address concerns associated with land use compatibility in the Navy's Accident Potential Zones. Dense residential developments or non-residential uses which congregate large groups of people should be prohibited in Accident Potential Zones.

Due to the significant amount of existing development within these APZs it is not feasible, at this time, to strictly follow the Navy's use guidelines which call for:

○ a. Accident Potential Zone 1 - prohibit residential uses and non-residential uses which may congregate large groups of people.

○ b. Accident Potential Zone 2 - limit residential development to 1 or 2 units per acre and prohibit non-residential uses which may congregate large groups of people.

Given these concerns the following short and long term objectives are recommended:

■ SHORT TERM OBJECTIVES

○ a. The City encourages the Navy to continue purchasing any remaining clear zone areas as these are the most hazardous of the Navy's Air Installation Compatible Use Zones.

○ b. Non-residential uses and residential uses which may congregate large groups of people should be prohibited from locating in APZ - I or APZ - II areas. The City should create an APZ Overlay Zone, for APZ areas (see Figure 7), to prohibit the following new uses in any underlying base zoning districts:

- hospitals
- places of worship (indoor or outdoor)
- schools/universities
- stadiums/athletic fields
- fairgrounds/circus grounds
- child care centers/nursing homes
- theaters/auditoriums (indoor or outdoor)
- exposition halls
- clubs and bars with seating for more than 50 people or for more than 100 persons per acre
- amusement park
- motels/hotels
- public swimming pools, or natatoriums
- any other private or public facility for the assembly of more than 100 persons per acre.
- any new residential use with a density of greater than 1 unit per net (does not include street right-of-way or other public properties) acre for APZ-1 and 2 units per net acre for

APZ-2 except where the base zoning is more restrictive, then use base zoning residential density/use requirements.

In addition, storage of explosives should be prohibited in any Clear Zone or Accident Potential Zone.

○ c. City housing rehabilitation programs should only be used in areas where residential land use is recommended and where residential zoning exists.

○ d. Public purposes being served by existing and planned expansion to Corpus Christi State University are considered appropriate.

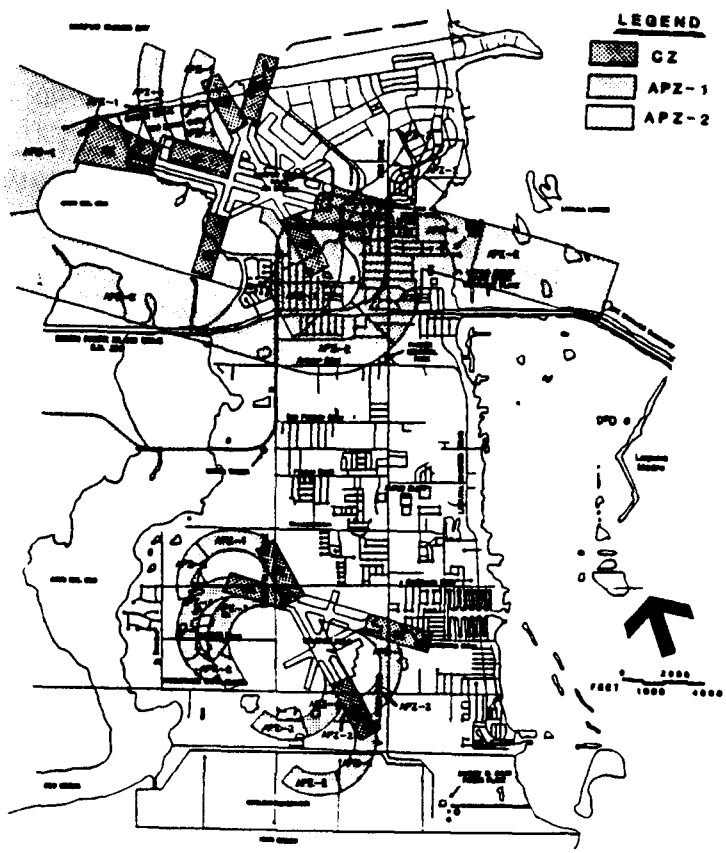
■ LONG TERM OBJECTIVES:

○ a. Continue overlay zone requirements contained in the short term objective and change the base zoning as recommended below. Consideration should be given to prohibiting new residential uses in APZ-1.

○ b. Residential areas located within APZs and north of South Padre Island Drive (SPID) and between Flour Bluff Drive and the Laguna Madre Shoreline should gradually transition to commercial and industrial uses. The City should facilitate this transition by approving rezoning requests for commercial or industrial zoning where there is adjacent commercial or industrial zoning or where it can be shown that the rezoned area can protect adjacent residences. Gradually, residential uses would be phased out of the area.

○ c. Property surrounding Waldron Field within Czs and APZs should not be rezoned for higher intensities than currently exist unless specified on the future land use plan map.

FIGURE 7 ACCIDENT POTENTIAL ZONE OVERLAY



POLICY STATEMENT B.6

The City should amend the 1987 Excavation Ordinance (Article IV) to include the following performance objectives:

○ a. Discourage excavations from locating near existing or future residential or commercial areas;

○ b. Establish a land reclamation requirement to prevent excavation pits from becoming a permanent blight on the land;

○ c. Revise the current ordinance (Section 13-156), to include site plan submission and review, a phasing program, outline of final land form, and reclamation of land; and

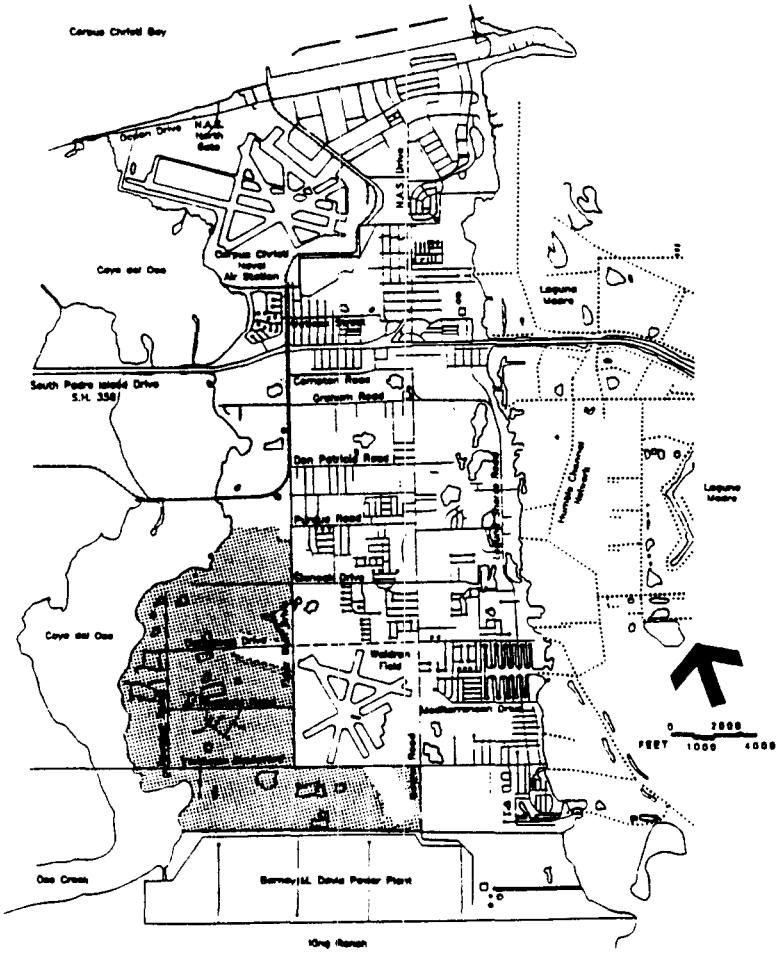
○ d. Require a bond to guarantee compliance.

The 1987 Ordinance addresses the permitting and environmental concerns before property can be used for excavation. However, the ordinance does not provide sufficient enforcement power to require complete or partial restoration of the land after excavation has been completed. At this time there is no guarantee for compliance. Bond posting requirements are strongly encouraged as an amendment to the ordinance. Posting a bond would guarantee compliance with restoration requirements.

POLICY STATEMENT B.7

The City should continue to encourage large lot development in the southwest quadrant (Figure 8) consistent with the existing development trend in the area and to preserve environmental qualities of the area. The southwest quadrant (bounded by the Cayo del Oso, Purdue Road, Barney Davis Power Plant, Flour Bluff Drive and Purdue Road) is characterized by a unique and sensitive natural environment. The City should support protection of this environment encouraging a continuation of the existing trend of large lots (1 acre or larger). Large lot development will help to protect the unique natural shrubbery, oak mottes, etc. in the area that would normally be lost as an area becomes developed. Large lot development is compatible as a buffer to the industrial use of the Barney Davis Power Plant which borders the south end of Flour Bluff.

FIGURE 8 SOUTHWESTERN QUADRANT



Objectives for the southwest quadrant include:

o a. In the southwest quadrant where 1 unit per acre residential density is proposed, allow rural streets with no curb and gutter, as rural streets are more consistent with the large lot, low density development recommended for the area. Surface drainage channels accompanying rural streets serve as retention areas, while reducing development costs.

o b. Require hook-up to city sanitary sewer when and if such service is available. Where such service is not available, allow on-site disposal technologies that offer the best protection to the natural environment and which meet state law.

POLICY STATEMENT B.8

Amend the City's Highway Beautification Ordinance to increase minimum billboard spacing from 500' to 1,500'. This spacing standard is consistent with Texas Department of Transportation (TXDOT) and many large Texas cities' standards.

POLICY STATEMENT B.9

The City encourages expanded and additional recreation vehicle areas to serve tourists. Rezoning of proposed commercial and/or multi-family land use near SPID and adjacent to the Laguna Madre for recreational vehicle usage should be encouraged. Zoning this area for recreation vehicles would take advantage of the natural resource of the Laguna Madre, excellent access to SPID and would meet community objectives to minimize potential for property losses in flood prone areas (due to the mobile nature of this use).

POLICY STATEMENT B.10

Gateways are designated in Figure 9 as areas where public landscaping should be used to beautify rights-of-way. Gateways are designed to give a sense of place marking passage from one area to another. Design objectives for gateways:

o a. The City Park and Recreation Department should work in conjunction with the TXDOT to develop a landscaping plan for gateway areas. Such a theme may include a palm planting program similar to those recommended in other areas of the City (North Central Area). The TXDOT Landscape matching program should be used to help finance this program.

o b. Placement of major landscaping, statuary, and lighting at gateways to create a distinct and memorable entrance to an area.

o c. Gateway improvement are to be placed on public property however, private property owners are encouraged to make such improvements when they are consistent with locations for gateways expressed in the Comprehensive Plan.

o d. Utilize city-owned property for a landscaped gateway/mini-park at the entrance to Flour Bluff.

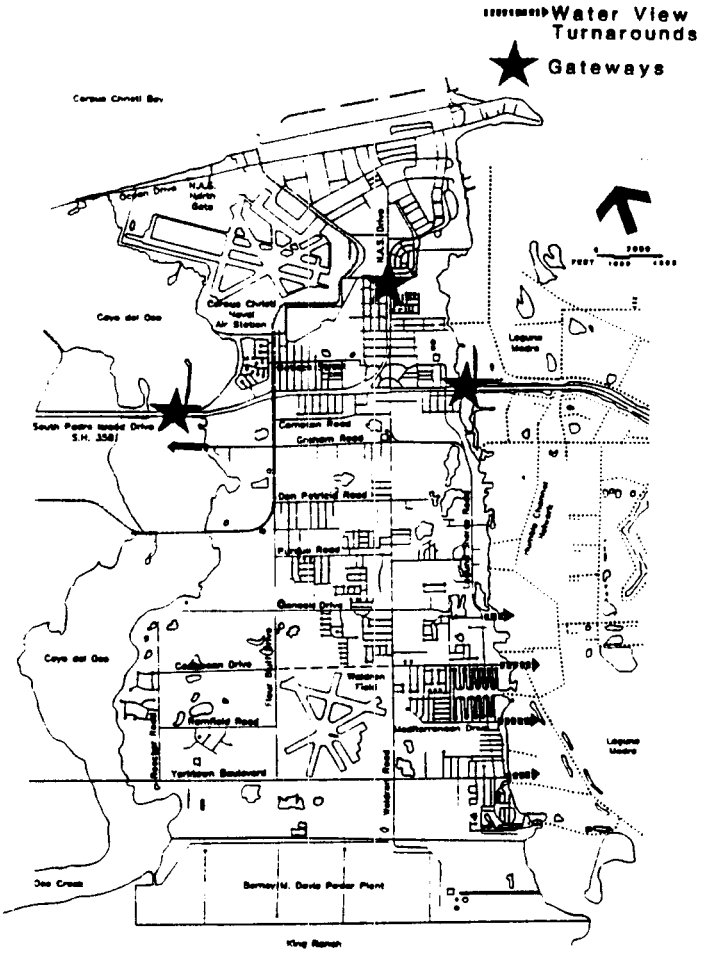
o e. If approval can be obtained from the TXDOT utilize Park Road 22 right-of-way or purchase private property for a landscaped gateway to the JFK Causeway near the Laguna Madre Shoreline and Park Road 22.

POLICY STATEMENT B.11

Designation of water view turn-a-rounds on Figure 9 are intended to maintain and enhance existing public access to Cayo Del Oso and the Laguna Madre. These areas provide opportunities to view the natural beauty of the Cayo Del Oso and the Laguna Madre and the hundreds of bird species that inhabit/or migrate thru the area. Design objectives for each of these areas include:

- a. Minimum 60' right-of-way and sufficient right-of-way to create turn-a-rounds;
- b. Construction of turn-a-rounds at the Laguna Madre terminus of Glenoak Drive, Caribbean Drive, Mediterranean Drive and Yorktown Blvd.;
- c. Construction of turn-a-rounds at the Cayo Del Oso terminus of Graham and Glenoak Drives;
- d. Creation of "look-outs", with public seating, landscaping, lighting, public parking etc.; and
- e. Where feasible, seek public access on state lands to enhance existing city property at minimal cost.

FIGURE 9 GATEWAYS AND WATER VIEW TURN-A-ROUNDS



POLICY STATEMENT B.12

Existing Industrial uses south of South Padre Island Drive between Waldron Road and Laguna Shores Drive should be encouraged to transition into uses compatible to adjacent proposed multi-family land use if, and when the current uses are discontinued. (see Future Land Use, Figure 5)

POLICY STATEMENT B.13

The City encourages opportunities for mixed commercial and residential uses when such mixed use development is part of a well integrated land use and public service plan of development.

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C. TRANSPORTATION

PLAN STATEMENT C.1

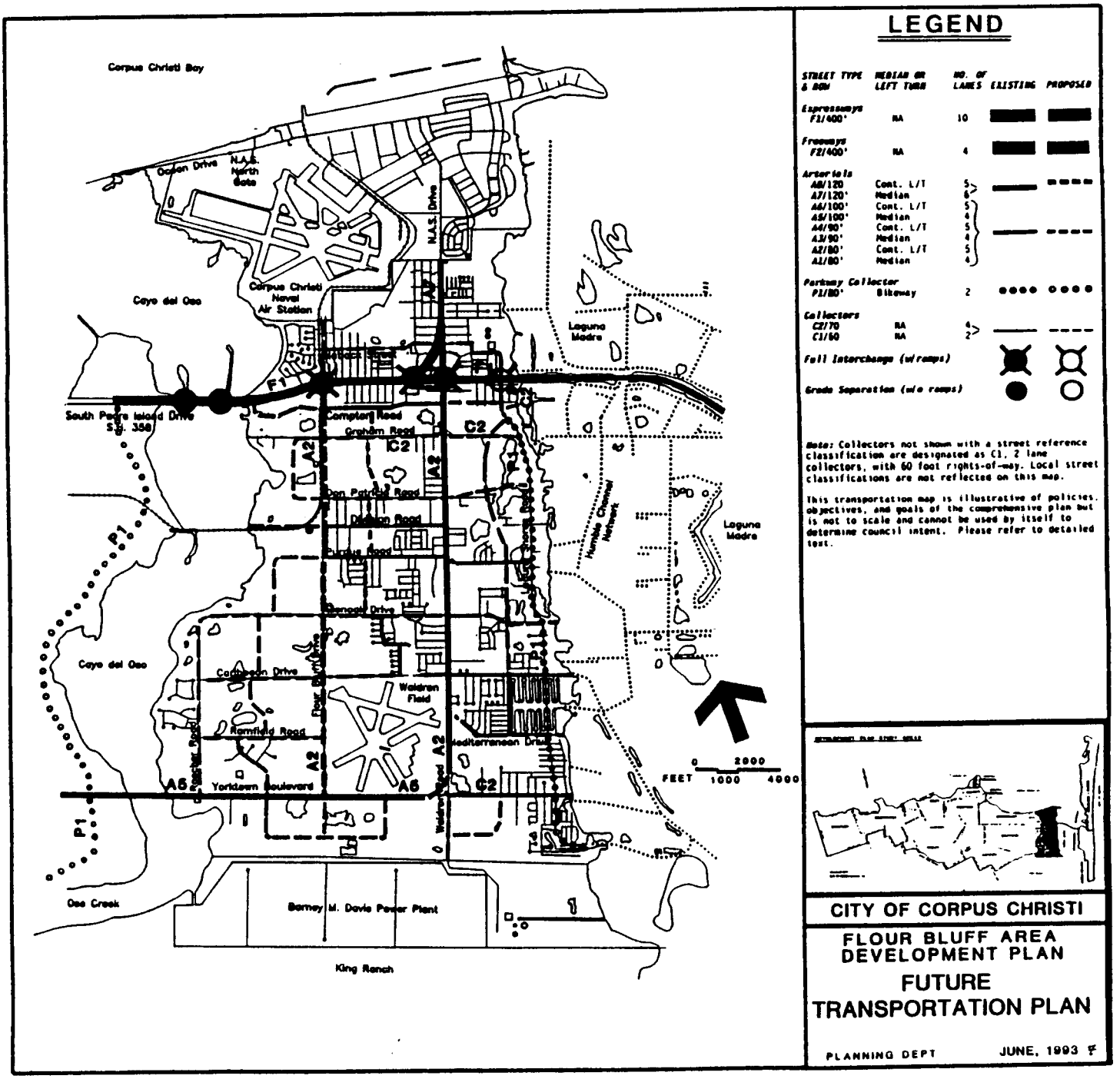
The City Council adopts the Transportation Plan (Figure 10) as a guide for future transportation decisions. The transportation network of this plan constitutes a recommendation by the City to amend the Metropolitan Planning Organization Urban Transportation Plan. Upon adoption, the plan will be submitted for review and inclusion in the MPO Master Transportation Plan. Implementation of this transportation plan facilitates:

o a. efficient emergency access, especially with regard to the Laguna Shores Road area;
o b. relieve future traffic congestion; and
o c. accomplish efficient transportation and development with minimal disruption of the natural environment.

Some recommended changes include but are not limited to:

▸ 1. Extend Compton Road westward, as a 2 lane collector street, from Flour Bluff Drive and swinging up to intersect with SPID.
▸ 2. Redesignate Graham Road from a 2 lane collector to a 4 lane collector between Flour Bluff Drive and Laguna Shores Road.
▸ 3. Redesignate Laguna Shores Road from an arterial to a 4 lane collector between Park Road 22 and the proposed Debra Street intersection.
▸ 4. Redesignate Laguna Shores Road from an arterial to a 2 lane parkway between the proposed Debra Street intersection and Yorktown Blvd. (a rural street cross section is acceptable without curb and gutter between Glenoak and Graham Road and should include continuous stabilized 7-8 shoulders on both sides of Laguna Shores and an 8' concrete bikeway on the water side of the street. (also see Policy Statement D.12)
▸ 5. Extend Jamaica/Debra Streets as a 2 lane, neighborhood collector, northward to Laguna Shores Road.
▸ 6. Redesignate a portion of Yorktown between Waldron Road and Laguna Shores Road from an arterial to a 4 lane collector.
▸ 7. Designate Compton and Knickerbocker Streets as 2 lane collectors.
▸ 8. Redesignate Stone/Jester Streets from collector to local streets and designate a loop 2 lane collector system between Flour Bluff Drive and SPID on Matlock, Claride and Lakeside Streets.
▸ 9. Designate Division Road as a 2 lane collector between the Cayo Del Oso and Waldron Road. Note, designation of Division Road provides an opportunity to cross the Cayo Del Oso should there be a need to do so in the future.
▸ 10. Delete proposed collector connections between Glenoak and Yorktown west of Flour Bluff Drive.
▸ 11. Illustrate proposed extension of Caribbean Drive Street between Waldron and Flour Bluff Drive however, it is important to note that this extension of Caribbean should not traversed the existing Waldron Park and proposed recreation facilities on Waldron Field. (See Policy D.14)
▸ 12. Realign proposed collector between St. Peter Street and Caribbean Drive to existing St. Francis Street.
▸ 13. SPID grade separation with east bound on-ramp and a west bound off-ramp at the Park Road 22/Laguna Shores Road intersection. Such a configuration should be considered long range and is only an option, subject to evaluation and study in combination with the raising the JFK Causeway.

FIGURE 10 TRANSPORTATION PLAN



▸14. Delete extension of Jamaica between Mediterranean and Yorktown.
▸15. Retain public rights-of-way at the Laguna Madre terminus of Glenoak Drive, Caribbean Drive, Mediterranean Drive and Yorktown Blvd. and at the Cayo Del Oso terminus of Graham Road. Retention and/or expansion of these streets to a 60' minimum right-of-way to state waters is necessary. These streets will provide opportunities for turn-a-rounds, looks-outs, limited public seating, lighting and landscaping.

POLICY STATEMENT C.2

The City encourages the Navy to expedite the closure of streets within clear zones and to establish a security fencing around all Clear Zones. This will reduce the opportunity for unauthorized access to the Naval Air Station lands.

POLICY STATEMENT C.3

To assure adequate circulation and egress in times of emergency, the City places as a priority extension of Debra/Jamaica Street as a north/south collector north of Mediterranean to serve as relief to Laguna Shores Road. The 6 inch seasonal tide makes Laguna Shores Road impassible. Compounding this, the section of Laguna Shores from Graham to Caribbean is in a FEMA V zone, which makes the area susceptible to flooding and wave action. Furthermore, upgrading Laguna Shores to full arterial status would be difficult or impossible given existing (federal) environmental regulations in this area. Debra Street should be extended as a second collector running parallel to Laguna Shores Road to be used for the bulk of the traffic. Debra Street could also serve as a backup for Laguna Shores Road since there is often road closure from Purdue to Graham.

POLICY STATEMENT C.4

Continue sidewalk improvement programs including those associated with the Voluntary Paving Program, the School Sidewalk Program, the street capital improvement program, and as part of new subdivision development. In addition, "sidewalk only" street improvements should be based on the following criteria:

- **Sufficient right-of-way exists to permanently place the sidewalk thus avoiding sidewalk relocation costs when full street improvements are constructed.**
- **Priority should be given to projects likely to serve the greatest number of users.**
- **Priority should be given to projects which are most likely to increase pedestrian safety.**

POLICY STATEMENT C.5

CAPITAL IMPROVEMENT NEED

Policy objectives in descending order of priority for improvements should be projects which will efficiently serve the Flour Bluff Area with emphasis on:

1) Completion of currently recommended capital improvement program (CIP) street projects,

2) Better access from areas and roads subject to periodic flooding, and

3) Enhanced access to and from South Padre Island Drive.

The following is a prioritized group of transportation improvement projects for the Flour Bluff area. Each of these projects is subject to change during the City's annual capital improvement prioritization process. The list is broken down into three categories:

- **I. CIP Recommended Projects - highest priority group in current Capital Improvement Program;**
- **II. CIP Future - medium priority included in current CIP;**
- **III. High Priority ADP Projects - not included in the current CIP, however, these projects should be considered for inclusion in either category I or II; and**
- **IV. ADP Proposed - lowest priority not included in current CIP (See Figure 11).**

I. CIP Recommended Projects:

- Waldron Road - Compton to Purdue
- Knickerbocker Street Extension - Waldron to O'Connell

II. CIP Future Projects:

- Laguna Shores Road - SPID to Yorktown
- Graham Road - Flour Bluff Drive to Laguna Shores
- Caribbean Drive - Waldron to Laguna Shores
- Matlock/Claride - NAS to Flour Bluff Drive
- Flour Bluff Drive - SPID to Yorktown and SPID to Sunbird
- Claride/East Lakeside - NAS to SPID
- Waldron Road - Caribbean to Yorktown
- Yorktown Blvd. - Cayo del Oso to Waldron
- Glenoak Drive - Flour Bluff Dr. to Laguna Shores
- Flour Bluff Neighborhood Streets - curb/gutter/sidewalk improvements contingent on residents' petition for improvements
  - Gateway Park Area Streets
  - Catcay - Caribbean to cul-de-sac
  - Azores - Caribbean to cul-de-sac
  - Jamaica - Mediterranean to Caribbean
  - Laguna Shores - Mediterranean to Caribbean

III. High Priority ADP Proposed Projects:

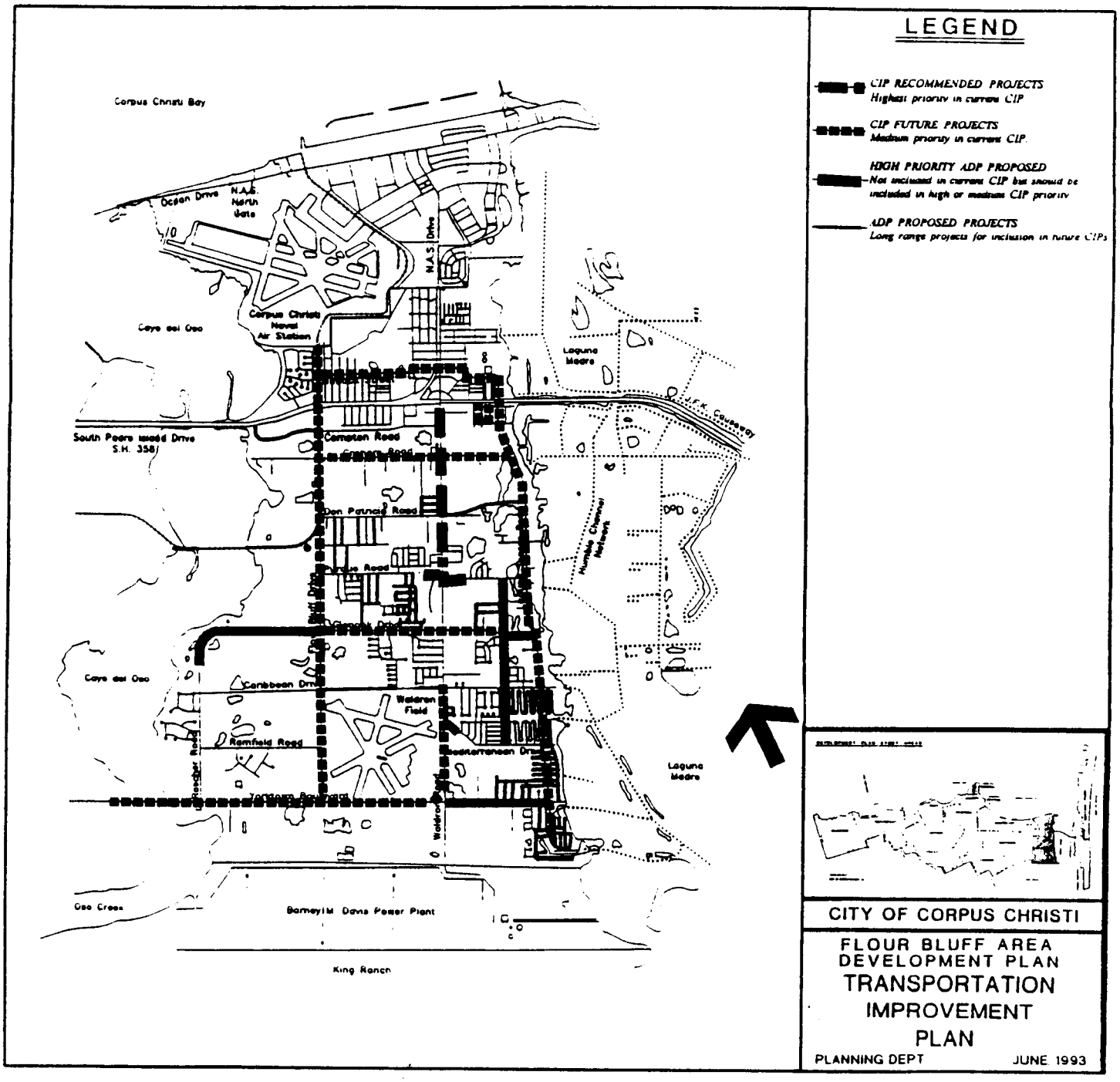
- Mediterranean Dr. - Tranto Street to Waldron Drive
- Debra/Jamaica Extension - Caribbean to Purdue Road (see C.3)
- Glenoak - connect with Roscher Road
- Purdue/Waldron intersection - eliminate off set
- Yorktown - Waldron to Laguna Shores Road

IV. ADP Proposed:

○Caribbean - Flour Bluff Dr. to western edge of Waldron Park
○Laguna Shores - Yorktown to south terminus
○Don Patricio - Waldron to Laguna Shores
○Compton - Flour Bluff Drive to SPID
○Neighborhood Street Improvements - curb/gutter/sidewalk improvements contingent on residents' petition for improvements

- ▸Flour Bluff Gardens
- ▸Don Patricio Subdivision
- ▸Bakers Acres
- ▸Homedale Subdivision/Retta Dr.
- ▸Waldron Subdivision
- ▸Oak Ridge/Laguna Heights subdivisions
- ▸Laguna Vista Shores/Holiday Harbor
- ▸Bayside Acres/Yorktown Heights
- ▸Blue Water/Tyler Subdivisions
- ▸Laguna Madre Cove
- ▸Bayberry Terrace
- ▸Tropic Isles

FIGURE 11 TRANSPORTATION IMPROVEMENT PLAN



D. PUBLIC UTILITIES AND SERVICES

POLICY STATEMENT D.1

The City will up-date its water, wastewater, stormwater and other appropriate master service plans to accommodate development proposed in the Flour Bluff ADP.

WATER

POLICY STATEMENT D.2

The City will construct the distribution main on Laguna Shores Road between SPID and Division Road.

POLICY STATEMENT D.3

Develop a five year program to bring substandard water lines into compliance. Give highest priority to areas with the greatest population density. Give higher priority to those streets where street improvements i.e., widening, curb/gutter installation etc. could be combined with water line replacement. Potential funding sources: revenue bonds; state/federal grants; and/or use funds from water revenues.

Expand the street paving assessment program to include an option to improve substandard water lines, gradually improving water mains in areas where the property owners are willing to participate in a voluntary assessment program.

STORMWATER

POLICY STATEMENT D.4

The City will work with Federal and State agencies to use, where feasible and environmentally beneficial, natural or man-made wetlands as stormwater retention facilities.

POLICY STATEMENT D.5

The City will strive to assure stormwater discharges occur where the soil is stable, or require dissipaters. This would reduce the amount of erosion, which contributes to stormwater flow problems and degradation of water quality consistent with NPDES mandates. At the same time the

City should encourage stormwater system development which uses existing natural and man-made retention ponds.

WASTEWATER

POLICY STATEMENT D.6

The overall long range goal for wastewater service in Flour Bluff is to continue eliminating on-site disposal systems. Due to the sensitive wetlands environment, protection of water quality and, high water table which make traditional on-site septic systems less feasible than in areas with deeper water tables, the City should require residents to tie on to the system when it is made available.

Development objectives:

o a. Until City wastewater service can be provided to undeveloped portions of Flour Bluff, environmentally safe on-site waste disposal systems may be used only if they meet State standards.

o b. Continue the wastewater program that provides a discount of pro rata and hook-up fees for property owners who tie onto new wastewater lines within a reasonable time after installation (3 years).

o c. Request funding from Community Development Block Grants (CDBG) for a low interest loan program to assist low income property owners who wish to tie onto the city wastewater system. Such funding could also come from Utility Department Revenue and loan payments could be made via the utility bill to minimize red tape.

PARKS & RECREATION

POLICY STATEMENT D.7

The City will restrict expansion of recreation facilities at Dimitt Pier and Caribbean Park as they are in the Navy's Air Installation Compatible Use Zones (AICUZ).

POLICY STATEMENT D.8

Expansion of Parker Park to the west along Graham Road is a top priority. New property is needed to expand parking for the adjacent community center.

POLICY STATEMENT D.9

Initiate a design study to provide a new multi-use facility at Parker Park, possibly including a branch library (see D.15), a location for cultural exhibits, displays and events. If a branch library is incorporated into this park it must be carefully planned to complement existing and proposed park improvements. These proposed improvements might include a theme play area, centered around Corpus Christi history, such as Karancahua, Spanish explorers or information about the King Ranch. Inclusion of an outdoor congregation area/amphitheater (outside AICUZs) could be a central part of this concept.

POLICY STATEMENT D.10

Through donation, dedication or purchase acquire land for a park(s) along the Cayo Del Oso and the Laguna Madre as indicated on the future land use plan map. These parks include, but are not limited to, the following locations:

- a. On either side of the Oso rail road bridge and Division Road;
- b. The southside of Yorktown Blvd. where Yorktown crosses the Cayo Del Oso; and
- c. A 20 to 30 acre community park along the Laguna Madre Shoreline.

POLICY STATEMENT D.11

The City development objectives for the Cayo Del Oso shoreline (see Figures 2 and 10) include:

- a. Gateway improvements to city owned property at the entrance to Flour Bluff. Such improvements should include landscaping, appropriate signage, lighting and, if there is sufficient room on the property, seating areas for viewing the Cayo Del Oso.
- b. The City will develop and improve fishing areas, vehicular access and parking at the Naval Air Station Railroad bridge connecting to Division Road on Flour Bluff and Holly Road on the southside. It is possible to use the bridge for a bike/jogging path link between the east and west shores of Cayo del Oso. However, the bike/jogging path must be safely separated from fishing activities on the bridge.
- c. Designated park south of Yorktown Blvd. on the Cayo Del Oso.

POLICY STATEMENT D.12

Develop Laguna Shores Road into a scenic parkway.

Development objectives include:

- a. A key element of the proposed parkway would be a bikeway in the street right-of-way. The bikeway should be 8' wide, placed on the east side of the parkway, constructed of concrete and separated from the main vehicular travel lanes.
- b. Develop the green belt potential of the parkway by creating intersecting bikeways along drainageways and streets that connect with the parkway.

○ c. Beautify the entrance to the Parkway at SPID. A gateway with landscaping and appropriate signage with lighting should identify the entrance to the parkway.
○ d. Where approval can be obtained from appropriate agencies obtain state grants to install parking/observation structures next to the red duck pond and other areas near the Laguna Madre. The city should consider using the 40' right-of-way south of the Red Duck Pond for parking and birdwatching observation structures. Where city land is not available, the City should seek leases with the General Land Office to provide these facilities.

POLICY STATEMENT D.13

To increase building use and service to residents the City will pursue a joint use agreement with Flour Bluff Independent School District (FBISD) for recreation and park facilities. Presently the City has an agreement for use of classrooms only, for the Latchkey Program. The agreement would include gymnasiums, ball fields, tennis courts, etc. for expanded recreational programs.

POLICY STATEMENT D.14

Due to deteriorated facilities, inefficient design, limited expansion areas and conflicts with navy operations, the City will relocate the Joint use facility at the southeastern corner of Waldron Field. Relocation of this facility will be contingent upon obtaining a lease for recreational use of naval property at the northeastern corner of Waldron Field with access to Waldron Park and frontage on Waldron Road. If a lease can be obtained, the City will develop a youth sports complex adjacent to Waldron Park on Navy property. Primary street access will be provided off of Waldron Road.

LIBRARY SYSTEM

POLICY STATEMENT D.15

Consistent with the City Library Master Plan initiate a design study to provide a new 12,000 square foot branch library. The City and Flour Bluff Independent School District should determine if a joint use facility is feasible. If it is not feasible, a new branch library should be built in the vicinity of Parker Memorial Park.

The Parker Park location provides a cost efficient and complementary combination of city services i.e., swimming pool, senior center, tennis courts, health department center etc., and provides excellent access to the many Island residents who use the library. In addition, construction of a branch library at Parker Park provides and opportunity to combine the new library with recreational multi-use facility. (see Policy Statement D.9)

Design and location objectives in the vicinity of Parker Park should include:

o a. Location of the library outside of the Navy's Accident Potential Zone 2 which cuts across the rear portions of the park.
o b. Provision of parking with an adequate number of spaces for joint use by the library, health clinic, community center, and passive/active recreation user which can be located in the APZ-2.
o c. Construction of a single story library facility rather than a multi-story structure. In order to provide sufficient land area one option that should be considered is the relocation of the existing tennis courts to the vacant northern portion of the park (inside APZ-2).
o d. Rezoning of the property to an appropriate zoning district.
o e. If sufficient space can be made available, garage space for a bookmobile serving island residents should be provided.

COMMUNITY DEVELOPMENT

POLICY STATEMENT D.16

The City should strengthen CDBG marketing and public awareness programs for qualifying residents and commercial uses. Although portions of Flour Bluff may be eligible for Community Development Block Grant programs, residents have rarely participated in these programs.
Public awareness can include: an intense program of neighborhood meetings, advertisement, house to house canvasing, and targeting of areas for street, curb, and gutter improvement. While meeting plan recommendations for residential and business activities in AICUZs, the City should encourage community development programs for:
o a. code enforcement;
o b. neighborhood improvement and beautification;
o c. housing rehabilitation; and
o d. neighborhood relocation.

POLICY STATEMENT D.17

The City will increase attention to areas of blight since they create a negative aesthetic reflection of the community, and are a hazard to the health and welfare of the citizens.
Following sound land use practices contained within the Comprehensive Plan will help to prevent future residential developments from the negative impacts created by industrial and commercial developments. In addition, the City will help reduce existing blight influences by:
o a. where feasible providing landscaping improvements in public rights-of-way along the SPID/NAS Drive corridor;
o b. encourage private property to exceed required landscaping improvements and provide landscaping improvements along SPID and NAS Drive;
o c. where consistent with future land use, provide incentives to encourage rehabilitation of older areas, or relocate housing or residents, to areas that provide safe, sanitary housing;
o d. pursuit of code enforcement of buildings and signs along NAS Drive and SPID. This would improve appearance and instill pride in the area and the community.

CAPITAL IMPROVEMENTS

POLICY STATEMENT D.18

The following services/improvements appear to warrant consideration in the city's five year capital improvement program.

Throughout the public meetings, the need for basic services was a common thread in discussions. Clearly, there is significant need for public improvements in the Flour Bluff area. However, in responding to this issue, it is imperative that we make a distinction between those improvements for which the City is responsible and those that will be implemented by developers and property owners as a condition for city approval of development permits. Furthermore, many improvements suggested in the plan may whether or not a city responsibility will not be needed for many years to come. The improvements listed below are considered both needed in the near term and a responsibility of the city.

o Extend Mediterranean Drive to Waldron Road - one of the most densely populated areas of Flour Bluff is the Tropic Isles and Caribbean Subdivisions. This extension of approximately 600' would reduce traffic on Caribbean Drive...currently the route to Waldron Road from this area.

o Improve the Purdue/Waldron Street intersection with the objective to eliminate the off-set of Purdue Street thereby creating traditional and safer 4 way intersection. This will also eliminate the need for two traffic lights. Purchase of property on both the east and west sides of Waldron Road would be needed. Most of the property that would be need is currently vacant.

o Continue to proactively install fire hydrants/improve water systems that do not meet standards. Continue to require new development to meet current standards for fire hydrant location and water system design.

o Reconstruction and widening of Flour Bluff Drive has been identifies as one of the priorities for the next bond program which would require voter approval. The project would have to compete with all other needs recommended for funding. If Flour Bluff Drive cannot be fully improved during the next five years consider lower cost intermediate improvements. Left turn lanes at Graham, Purdue, and Glenoak Drives would help keep traffic moving and prevent motorists from passing on the shoulder. This is especially important as there are no sidewalks along this street and pedestrians sometime stray near the street shoulder area. Such right-of-way would be required as dedication when any of these property owners plat their property or purchased as money becomes available.

o Approximately 600 septic systems exist in Flour Bluff. Almost 400 of these systems serve property that has an existing wastewater main available to serve the property. Current City Wastewater Programs offer incentives to tie onto the City system however, property owners' costs to provide a connecting pipeline from the residence to the wastewater main in the street make tieing onto the city system expensive. Offer a revolving low interest program to finance improvements on private property necessary to connect a city wastewater line to a residence.

Approach banks in Flour Bluff to determine if they would finance or administer such loans. Seed money might also come from utility revenue, CDBG, or other State or Federal programs.

○ Improvements to Graham Road, between Waldron Road and Laguna Shores Road. De-emphasis of Laguna Shores Road as a through street and emphasis upon the Debra Street Extension on Waldron Road for a more efficient collector/arterial network must be complimented by improvements to Graham Road as an important link between the Debra Extension and Waldron Road.

○ Improvements to Yorktown Boulevard, west of Waldron Road and completion of Waldron Road widening between Caribbean and Yorktown. Flour Bluff residents require an alternative east-west arterial to the now near-exclusive predominant use of the SH 358 Expressway. Improvements to Yorktown and Waldron are part of a master plan to provide and outer arterial belt connecting the Flour Bluff area with the Southside Area, Westside Area and Northwest Area via Yorktown, Saratoga and Rand Morgan Road.

○ Improvements to connect Glenoak with Roscher Road to provide better neighborhood access.

○ Area wide residential area and continuous street lighting improvements.

APPENDICES

A. Environmental Reference

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ecological Services
c/o CCSU, Campus Box 338
6300 Ocean Drive
Corpus Christi, Texas 78412

December 23, 1991

Nancy Harvieux
City of Corpus Christi, Planning Department
1201 Leopard
Corpus Christi, Texas 78401

Dear Ms. Harvieux:

Per your telephone request of November 13, 1991, we have compiled the following information to assist you in the City of Corpus Christi's long-range planning efforts. You asked for material pertaining to listed and candidate species, as well as information highlighting the significance of the wetland types, which occur in Nueces County.

The purposes of the Endangered Species Act (Act) of 1973, as amended, were to conserve ecosystems on which threatened and endangered species depend, to provide for the conservation of such species, and to take steps to achieve the purposes of the treaties and conventions as stated in Section 2(a) of the Act (see enclosure). Under the law, the Secretary of the Interior (acting through the Fish and Wildlife Service) has broad powers to protect and conserve all forms of wildlife and plants he finds in serious jeopardy. The Secretary of Commerce, acting through the National Marine Fisheries Service, has similar authority for protection and conservation of marine life.

A listed species is one whose status is legally recognized as threatened or endangered following a formal "rulemaking" procedure for determining which species would be placed on the U.S. List of Endangered and Threatened Wildlife and Plants. This "rulemaking" is the process used by Federal agencies (and many States) to propose and later adopt regulations which have the effect of law and which apply to all U.S. residents. An endangered species is defined as any species which is in danger of extinction throughout all or a significant portion of its range. Threatened species are defined as those species which are likely to become endangered within the foreseeable future throughout all or a significant portion of their range. Prior to any animal or plant being placed on the Federal species list, threats from habitat destruction, pollution, overharvesting, disease, predation, or other natural or man-made factors must be reviewed and evaluated.

Section 9 of the Act prohibits possession of, "take" of, or transportation of a listed species in interstate or international commerce without special permission. The term "take" as defined in the Act means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. This broad definition of "take" protects the habitat of a listed species as well as the individual organism. The Act also requires all Federal agencies to ensure that the activities they undertake or permit will not jeopardize the continued existence of listed species or result in adverse impacts to their critical habitat. The Act does allow the taking of listed species incidental to an agency action if such taking would not jeopardize the species.

The determination of jeopardy is the responsibility of the Fish and Wildlife Service (Service). With regard to cases where incidental take will not jeopardize a species, the action agency must adopt terms and conditions and reasonable and prudent measures identified by the Service to minimize the level of incidental take. Individuals or entities planning an activity which may modify potential habitat of a listed species, but lacking a Federal link, are also liable for "take" under the Act. These individuals or entities should contact the Service for further advice before project construction or clearing is initiated. In some cases, project design can be modified to avoid take, but in the event that take can not be avoided, and the take would be incidental to and not the purpose of, carrying out an otherwise lawful activity, the aforementioned party(ies) can apply for a Section 10 permit for incidental take (see enclosure). The conservation of "critical habitat", the areas of land, water, and air space needed by a listed species for its survival, is also warranted by the Act. Designation of critical habitat for listed species must go through the same rulemaking procedure as was required to list the individual species. Critical habitat for a listed species includes the breeding sites, cover and shelter, and surrounding habitat that allows for normal population growth, maintenance, and behavior. Critical habitat has not been established for a majority of listed species, although the Act allows for listing of critical habitat subsequent to listing of a species. Except in certain circumstances, determined by the Secretary, critical habitat shall not include the entire geographical area which can be occupied by the listed species.

The Act requires a determination of whether species of wildlife and plants are endangered or threatened based on the best available scientific and commercial data. Therefore, the Service has gathered data, over time, regarding numerous taxa of animals (fishes, amphibians, reptiles, birds, mammals, sponges, crustaceans, arachnids, insects, snails, bivalve mollusks, and plants) native to the United States, that have appeared to merit consideration for listing. These species of animals and plants are referred to as candidate species and a list of these candidate species is updated every two years in the animal or plant Notice of Review (50 CFR Part 17) wherein these species are assigned to one of three categories described below. Candidate species have no legal protection under the Act.

Category 1 is comprised of taxa for which the Service currently has substantial information on hand to support the biological appropriateness of proposing to list as endangered or threatened. Development and publication of proposed rules on these taxa are anticipated and therefore the Service encourages Federal agencies and other appropriate parties to give consideration to such taxa in environmental planning.

Category 2 includes taxa for which available information indicates that proposing to list is possibly appropriate, but for which substantial data on biological vulnerability and threats are not currently known to support the immediate preparation of listing rules. Inclusion of species in this category will encourage investigation of the status and vulnerability of these taxa and consideration of them in the course of environmental planning.

Category 3 comprises taxa that were once being considered for listing but are not currently receiving such consideration because; the species is now believed to be extinct (Category 3A), or the species was taxonomically revised and no longer meets the Act's legal definition of a species (3B), or the taxa is now considered to be more abundant and/or widespread than previously thought (3C).

The following inventory of Federally-listed endangered (E), threatened (T), and candidate animals and plants (Categories 1 and 2) which occur in Nueces County is provided for your convenience. Photocopies of material pertinent to the individual species is also enclosed.

American peregrine falcon (Falco peregrinus anatum) - E
Arctic peregrine falcon (Falco peregrinus tundrium) - T
Audubon's oriole (Icterus graducauda audubonii) - C2
black-spotted newt (Notophthalmus meridionalis) - C2
brown pelican (Pelecanus occidentalis) - E
Chandler craig-lily (Anthericum chandleri) - C2
ferruginous hawk (Buteo regalis) - C2
green sea turtle (Chelonia mydas) - T
Gulf Coast hog-nosed skunk (Conepatus leuconotus texensis) - C2
hawksbill sea turtle (Eretmochelys imbricata) - E
jaguarundi (Felis yagouaroundi) - E
Kemp's ridley sea turtle (Lepidochelys kempi) - E
leatherback sea turtle (Dermochelys coriacea) - E
loggerhead sea turtle (Caretta) - T
long-billed curlew (Numenius americanus) - C2
migrant loggerhead shrike (Lanius ludovicianus migrans) - C2
mountain plover (Charadrius montanus) - C2
northern grey hawk (Buteo nitidus) - C2
ocelot (Felis pardalis) - E
piping plover (Charadrius melodus) - T
reddish egret (Egretta rufescens) - C2
Rio Grande lesser siren (Siren intermedia texana) - C2
Sennett's hooded oriole (Icterus cucullatus sennettii) - C2
slender rushpea (Hoffmanseggia tenella) - E
South Texas ambrosia (Ambrosia cheiranthifolia) - C1
Texas Botteri's sparrow (Aimophila botterii texana) - C2
Texas horned lizard (Phrynosoma cornutum) - C2
Texas maritime pocket gopher (Geomys personatus maritimus) - C2
western snowy plover (Leucoplius alexandrinus nivosus) - C2
Wright's yellow-show (Amoreuxia wrightii) - C2

In addition to information concerning endangered species, you also requested clarification on the significance of wetland types occurring in Nueces County. The wetlands of the Texas coastal plain, including Nueces County, are varied and consist of vegetated and unvegetated tidal flats, intertidal marshes, submerged grassbeds, bayous, deltas, isolated inland depressions, and wetlands associated with river floodplains such as resacas or oxbows.

Several types of marine wetlands occur along the bay and Gulf shorelines in Nueces County. Brackish and saline intertidal marshes, characterized by either smooth cordgrass (Spartina alterniflora) or low-growing halophytic (salt-loving) emergent vegetation such as saltwort (Batis maritima), glasswort (Salicornia spp.), etc., perform a variety of functions in the bay ecosystems. Salt marsh vegetation provides essential nutrients which form the base of the estuarine food chain. This food chain supports recreationally and commercially important finfish and shellfish along the Gulf coast and includes white shrimp, brown shrimp, blue crab, stone crab, oyster, red drum, black drum, Atlantic croaker, weakfish, speckled trout, and flounder. Marsh vegetation also binds the sediments with root structures, thereby preventing shoreline erosion.

Unvegetated sand and mud tidal flats render important primary production and ecological roles. These flats contain numerous species of invertebrates including amphipods, isopods, mysid shrimp, cumaceans, copepods, crabs, and a diverse array of other benthic infaunal arthropods, as well as annelids, molluscs, and bryozoans. The aforementioned invertebrates feed on the various species of algae, bacteria, and protozoa, as well as detritus which occur in the flats. These species are in turn fed upon by numerous species of fish and crustaceans occurring throughout the bays' ecosystems. These wetland marsh and tidal flat areas also provide important foraging and resting habitat for numerous species of shorebirds and piscivorous water birds, including great blue herons, tricolored herons, reddish egrets, little blue herons, great egrets, snowy

egrets, roseate spoonbills, white ibis, American bitterns, green-backed herons, night herons, American avocets, black-necked stilt, black skimmer, and a variety of gulls, terns, sandpipers, and plovers. In fact, the Federally-listed threatened piping plover is known to use a number of intertidal flats in the Corpus Christi-Nueces Bay and upper Laguna Madre system.

Submerged habitats in the local bay systems are characterized by submerged stands of aquatic vegetation including five species of seagrasses: shoalgrass (Halodule wrightii), turtlegrass (Thalassia testudinum), widgeongrass (Ruppia maritima), manateegrass (Syringodium filiforme), and Gulf halophila (Halophila engelmannii) occurring in either dense stands or interspersed with bare bay bottom. These seagrass meadows support complex communities of small invertebrates, crustaceans, and juvenile finfish. The bays and their surrounding tidal flats, marshes, and submerged grassbeds are used by numerous waterfowl including pintail, shoveler, blue-wing teal, green-wing teal, American wigeon, scaup, redhead ducks, Canada geese, and snow geese.

Several types of freshwater wetlands are found in Nueces County. The channel of the Nueces River is classified as a riverine wetland and includes all wetlands and deepwater habitats contained within the channel except for the wetlands dominated by trees, shrubs, persistent emergents, and/or emergent mosses or lichens which exist along its banks. These vegetated wetlands are considered palustrine, emergent wetlands. The riverine system ends downstream at the interface with Nueces Bay where the concentration of ocean-derived salts exceeds 0.5% during the period of annual average low flow. The river and its adjacent palustrine wetlands support numerous species of fish (gar, carp, catfish, bass, sunfish, crappie, and various minnows), reptiles (alligators, turtles, and snakes), amphibians (frogs and salamanders), and invertebrates. Native riparian woodlands (cedar elm, ash, hackberry, live oak community), growing along the river banks and in the floodplain, depend on near-surface groundwater and/or regular flooding to maintain their moisture regime. Since these riparian forests supply water, this habitat type is often more productive for wild flora and fauna than adjacent upland habitats and generally sustains higher species diversity. The wetlands associated with the Nueces River floodplain, including oxbows and seasonally flooded depressions, receive heavy use by migratory birds including waterfowl, wading birds, shorebirds, songbirds, and cranes. Riparian vegetation within the floodplain provides cover, food, and resting and nesting areas for migratory and resident birds such as warblers, vireos, woodpeckers, turkeys, herons, egrets, anhingas, and woodstorks; as well as homes for a diversity of mammals, reptiles, amphibians, and invertebrates. In a one-day observation, local birding enthusiasts counted over 200,000 migrating hawks resting in wooded areas along the Nueces River near Hazel Bazemore Park. Ocelots and jaguarundi, both Federally-listed endangered species, require not only thick brush habitat, but also use riparian wooded corridors for travel purposes.

Riverine systems nationwide are most heavily impacted by upstream impoundments and point and non-point source contamination from various sources. The Nueces River is no exception. Reduced instream flows in the river, due to the Choke Canyon and Lake Corpus Christi reservoirs, have primarily adversely impacted wetlands in the floodplain of the river by eliminating flood flows that would (1) feed and nourish these wetlands, (2) scour and remove accumulated sediment, actions needed to halt succession and perpetuate the wetlands, and (3) dilute salinities within the Nueces Bay estuary. Since riparian wetlands are at least partially dependent on flooding events, these woodlands are also adversely impacted by loss of flood flows. Riparian areas are a valuable resource needing protection from draining and filling activities since 70% of the original floodplain forest in the lower 48 states has been cleared for agricultural and urban uses (Brinson et al., 1981).

Lacustrine wetlands (lakes and ponds) in Nueces County are by and large man-made impoundments. These habitats have various degrees of utility to wildlife and fishery resources depending on their configuration, depth, and the quality of their water source. One example of a highly valuable, man-made, lacustrine wetland can be found in Flour Bluff on Glenoak Drive, and is locally known as "Redhead Pond". The high intensity use of this pond by migratory waterfowl and resident waterbirds, mammals, etc. derives from its provision of fresh-to-brackish water during periods when fresh water is a limiting resource in the area. This pond also has a shallow perimeter which has allowed the establishment of emergent vegetation. The emergent marsh not only acts as cover for wildlife, but also as a filtering system for stormwater runoff and as a supply of nutrients to the pond. Another important lacustrine wetland resource in the county is a cluster of flooded gravel pits, dug in the floodplain of the Nueces River, which serve as excellent habitat for migratory and resident birds, other wildlife species, and fish. Especially valuable are those gravel pits which are near the river, isolated from residential construction, and which are at least partially surrounded by riparian vegetation. The results of annual bird surveys in and around these gravel pits shows the use of these areas by a wide diversity of bird life.

Marshes; swamps; bogs; fens; prairies; and other small, shallow, permanent or intermittent water bodies (ponds or potholes) are considered palustrine wetlands (Cowardin et al., 1979). Palustrine habitats in Nueces County serve as essential sources of drinking water, food, and resting areas for various species of migratory, shore, and wading birds. These wetlands also supply the freshwater required for many bird species to maintain salt gland functions. Submergent and emergent wetland plants and associated upland vegetation furnish forage for waterfowl, marsh birds, shorebirds, upland game birds, songbirds, and other wildlife. This vegetation also plays a key role in contributing vital nutrients to the aquatic ecosystem and in substrate stabilization.

Depressional pothole wetlands extend along the Texas coastal plain from Brownsville to Port O'Connor and are vital habitats for wildlife in Nueces County. A number of the most significant palustrine wetlands in Nueces County are depressional potholes and swales found on the barrier islands and on the Encinal Peninsula (Flour Bluff). Palustrine open water, semi-permanently flooded wetlands predominate on the Encinal Peninsula. The significance of these depressional wetlands to migratory birds and other wildlife was documented by Chaney (1981), Spiller and French (1986), and Collins (1987) (see enclosures).

A complex of live oak brush and adjacent potholes consists of numerous depressions of varying sizes found on the Pleistocene Strandplain sand formation which comprises the Encinal, Live Oak, Blackjack, and Lamar Peninsulas. The main concentration of live oak groves on the Texas coastal plain occurs on the Encinal and Live Oak Peninsulas. Flour Bluff encompasses the area in Nueces County on which remaining fragmented stands of live oak brush potholes are found. As documented by Collins (1987), the aquatic vegetation associated with the live oak potholes is often extremely diverse (see enclosure). On the neighboring Live Oak Peninsula potholes, surrounding upland vegetation is primarily live oak, red bay, yaupon, green briar, and mustang grape with a variety of other grasses, forbs, and shrubs interspersed or growing on the edges of the brush. The live oak brush pothole wetland complex supports a wide array of fish and wildlife species. During field observations of 18 potholes and surrounding brush communities on the Live Oak Peninsula, Collins (1987) recorded 20 species of mammals, 10 species of reptiles and amphibians, and four species of fish. Gunter (1950) documented five additional fish species in potholes on Aransas National Wildlife Refuge (Live Oak

Peninsula). However, these pothole wetlands are probably most important to wintering waterfowl and other birds, as was confirmed by Collins (1987) observations of 73 bird species using Live Oak Peninsula potholes (see enclosures).

Pothole wetlands have declined in number and deteriorated in quality due to impacts from human activities such as drainage for agriculture and residential development, road construction, and contamination from polluted runoff. Pothole wetlands along the central Texas coast, particularly those associated with the live oak-brush community, continue to experience severe developmental pressure (Collins, 1987). Palustrine habitats in Flour Bluff and on Mustang and South Padre Islands are becoming scarce due to residential development. Due to the scarcity and importance to organisms such as waterfowl, the Service has included these habitats in Resource Category 2 in accordance with its mitigation policy, as described in the Federal Register dated January 23, 1981. The mitigation planning goal for this Resource Category is no net loss of in-kind habitat value. This goal, as well as the President's own no-net-loss policy for wetlands in general, could best be met by avoiding any filling of this wetland type.

Wetlands are being destroyed at the rate of one-half million acres per year in the United States. This has reduced the estimated 120 million acres of wetlands existing at the turn of the century to presently less than 60 million acres. This loss of wetlands, combined with other factors, has resulted in reduced populations of migratory species. Waterfowl habitat has become increasingly threatened in recent years due to the adverse modification of wetlands by either draining or filling. As a result, the governments of Canada and the United States have entered into an agreement known as the North American Waterfowl Management Plan (Plan) to implement measures which will attempt to reverse these negative trends. Recently, the Corps of Engineers has endorsed the Plan by signing a memorandum of understanding with the Service and has agreed to consider the goals of this program with regard to reviewing Section 404 (Clean Water Act) permit applications for projects slated to take place in wetlands.

You also requested our principal site concerns for the Flour Bluff area, therefore habitat considerations for this peninsula are summarized in this paragraph. Since information regarding values and losses of habitat types is presented earlier in this letter, a brief list of our major areas of interest is outlined herein. All intertidal areas along the Flour Bluff shoreline are due consideration with regard to being jurisdictional wetlands needing Corps Section 10/404 permits for alterations. Both the Oso Bay and Laguna Madre shorelines of the Encinal Peninsula consist of either halophytic marsh and/or unvegetated intertidal zone. In particular, those intertidal areas of shoreline lacking vegetative cover should be investigated for potential use by piping plovers and reddish egrets, a Federally-listed species and a candidate Category 2 species, respectively. As an example, these birds have been noted foraging on the Laguna Madre shoreline at the terminus of Lola Johnson road. Many of the remnant depressional "potholes" in Flour Bluff also merit conservation as important wildlife habitat, and Corps determination of wetland jurisdiction is prudent prior to any planning and/or implementation of conversion of these areas. Some lacustrine habitats in Flour Bluff are valuable wildlife habitat, especially the Redhead Pond on Glenoak Drive. Please be advised that this pond in now owned by the Texas Parks and Wildlife Department and is considered a sanctuary. Finally, one major upland concern on the Encinal Peninsula is the live oak brush community, a habitat mainstay for migratory and resident birds. Also of significance are open maritime pocket gopher, a candidate Category 2 species. Primary threats to the continue existence of this mammal are paved developments and domestic cats.

We appreciate the opportunity to provide input on fish and wildlife concerns to the City of Corpus Christi. We especially would like to commend the Planning

Department for their active role in soliciting assistance with identifying important habitats in order to recognize these areas in the City's long-term development plans. The Service would like to offer assistance in any overall planning efforts and also on a project site-specific basis. Any activities planned by the City in areas adjacent to natural water bodies may be likely to impact wetlands and the Service will be glad to help with on-site identification of wetlands. All final delineations of jurisdictional wetlands however, must be conducted by the Army Corps of Engineers.

If you have any questions or need further assistance, please contact Robyn Cobb of this office at (512) 888-3346.

Sincerely,

Thomas E. Grahl

THOMAS E. GRAHL
Acting Field Supervisor

Attachments

LITERATURE CITED

Brinson, M. M., B. L. Swift, R. C. Plantico, and J. S. Barclay. 1981. Riparian ecosystems; Their ecology and status. U.S. Dept. of Interior, Fish and Wildlife Service, FWS/OBS-8117. 155 pp.

Chaney, A. H. 1981. A study of the bird use of the wetlands in the middle Rio Grande Valley. Final Rep. U.S. Fish Wildl. Serv., Ecol. Serv., Corpus Christi, TX. 88 pp.

Collins, K. D. 1987. The distribution, status and ecological value of inland pothole wetlands associated with the live oak brush community in South Texas. U.S. Fish Wildl. Serv., Ecol. Serv., Corpus Christi, TX. 23 pp.

Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildl. Serv. FWS/OBS-79/31. Washington D.C. 103 pp.

Gunter, G. 1945. Studies on marine fisheries of Texas. Publ. Inst. Mar. Sci. Univ. Tex. 1(1):1-190.

Spiller, S. F., and J. D. French. 1986. The value and status of inland pothole wetlands in the Lower Rio Grande Valley, Texas. U.S. Fish Wildl. Serv., Ecol. Serv., Corpus Christi, TX. 18 pp.

B. Department of the Navy Land Use Recommendations

TABLE 4. SUGGESTED LAND USE COMPATIBILITY IN ACCIDENT POTENTIAL ZONES

LAND USE		CLEAR ZONE	APZ-1	APZ-2
SLUCM NO.	NAME			
10	Residential			
11	Household units			
11.11	Single units: detached	N	N	Y[1]
11.12	Single units: semidetached	N	N	N
11.13	Single units: attached row	N	N	N
11.21	Two units: side-by-side	N	N	N
11.22	Two units: one above the other	N	N	N
11.31	Apartments: walk up	N	N	N
11.32	Apartments: elevator	N	N	N
12	Group quarters	N	N	N
13	Residential hotels	N	N	N
14	Mobile home parks or courts	N	N	N
15	Transient lodgings	N	N	N
16	Other residential	N	N	N[1]
20	Manufacturing			
21	Food & kindred products: manufacturing	N	N[2]	Y
22	Textile mill products: manufacturing	N	N[2]	Y
23	Apparel and other finished products made from fabrics, leather, and similar materials: manufacturing	N	N	N[2]
24	Lumber and wood products (except furniture): manufacturing	N	Y[2]	Y
25	Furniture and fixtures: manufacturing	N	Y[2]	Y
26	Paper & allied products: manufacturing	N	Y[2]	Y
27	Printing, publishing, and allied industries	N	Y[2]	Y
28	Chemicals and allied products: manufacturing	N	N	N[2]
29	Petroleum refining and related industries	N	N	N

TABLE 4. SUGGESTED LAND USE COMPATIBILITY IN ACCIDENT POTENTIAL ZONES

LAND USE SLUCM NO.	LAND USE NAME	CLEAR ZONE	APZ-1	APZ-2
30	**Manufacturing (cont'd)**			
31	Rubber and misc. plastic products: manufacturing	N	N[2]	N[2]
32	Stone, clay and glass products: manufacturing	N	N[2]	Y
33	Primary metal industries	N	N[2]	Y
34	Fabricated metal products: manufacturing	N	N[2]	Y
35	Professional, scientific, and controlling instruments; photographic and optical goods; watches and clocks - manufacturing	N	N	N[2]
39	Miscellaneous manufacturing	N	Y[2]	Y[2]
40	**Transportation, communi- and utilities**			
41	Railroad, rapid rail transit and street railway transportation	N[3]	Y[4]	Y
42	Motor vehicle transportation	N[3]	Y	Y
43	Aircraft transportation	N[3]	Y[4]	Y
44	Marine craft transportation	N[3]	Y[4]	Y
45	Highway & street right-of-way	N[3]	Y	Y
46	Automobile parking	N[3]	Y[4]	Y
47	Communication	N[3]	Y[4]	Y
48	Utilities	N[3]	Y[4]	Y
49	Other transportation, communication and utilities	N[3]	Y[4]	Y
50	**Trade**			
51	Wholesale trade	N	Y[2]	Y
52	Retail trade - building materials, hardware and farm equipment	N	Y[2]	Y
53	Retail trade - general merchandise	N	N[2]	Y[2]
54	Retail trade - food	N	N[2]	Y[2]
55	Retail trade - automotive, marine craft, aircraft and accessories	N	Y[2]	Y
56	Retail trade - apparel and accessories	N	N[2]	Y[2]
57	Retail trade - furniture, home furnishings and equipment	N	N[2]	Y[2]
58	Retail trade - eating and drinking establishments	N	N	N[2]
59	Other retail trade	N	N[2]	Y[2]

TABLE 4. SUGGESTED LAND USE COMPATIBILITY IN ACCIDENT POTENTIAL ZONES

LAND USE SLUCM NO.	LAND USE NAME	CLEAR ZONE	APZ-1	APZ-2
60	**Services**			
61	Finance, insurance and real estate services	N	N	Y[6]
62	Personal services	N	N	Y[6]
62.4	Cemeteries	N	Y[7]	Y[7]
63	Business services	N	Y[8]	Y[8]
64	Repair services	N	Y[2]	Y
65	Professional services	N	N	Y[6]
65.1	Hospitals, nursing homes	N	N	N
65.1	Other medical facilities	N	N	N
66	Contract construction services	N	Y[6]	Y
67	Governmental services	N	N	Y[6]
68	Educational services	N	N	N
69	Miscellaneous services	N	N[2]	Y[2]
70	**Cultural, entertainment and recreational**			
71	Cultural activities (including churches)	N	N	N[2]
71.2	Nature exhibits	N	Y[2]	Y
72	Public assembly	N	N	N
72.1	Auditoriums, concert halls	N	N	N
72.11	Outdoor music shells, amphitheaters	N	N	N
72.2	Outdoor sports arenas, spectator sports	N	N	N
73	Amusements	N	N	Y[8]
74	Recreational activities (incl. golf courses, riding stables, water recreation)	N	Y[8,9,10]	Y
75	Resorts and group camps	N	N	N
76	Parks	N	Y[8]	Y[8]
79	Other cultural, entertainment and recreation	N	Y[9]	Y[9]
80	**Resource production and extraction**			
81	Agriculture (except livestock)	Y	Y	Y
81.5) 81.7)	Livestock farming and animal breeding	N	Y	Y
82	Agricultural related activities	N	Y[5]	Y
83	Forestry activities and related services	N[5]	Y	Y
84	Fishing activities and related services	N[5]	Y[5]	Y
85	Mining activities and related services	N	Y[5]	Y
89	Other resource production and extraction	N	Y[5]	Y

NOTES TO TABLE 4

1. Suggested maximum density 1-2 dwelling units per acre, possibly increased under a Planned Unit Development (PUD) where maximum lot coverage is less than 20 percent.

2. Within each land use category, uses exist where further evaluation may be needed due to the variation of densities of people and structures. For example, where a small neighborhood retail store may be compatible in APZ-II, a shopping center or strip shopping mall would be incompatible due to the density of development and concentration of people.

3. The placing of structures, buildings or above-ground utility lines in the clear zone is subject to severe restrictions. In a majority of the clear zones, these items are prohibited. See NAVFAC P-80.3 (NOTAL) for specific guidance.

4. No passenger terminals and no major above-ground transmission lines in APZ-I.

5. Factors to be considered: labor intensity, structural coverage, explosive characteristics, air pollution.

6. Low-intensity office uses only. Meeting places, auditoriums, etc., not recommended.

7. Excludes chapels.

8. Facilities must be low intensity.

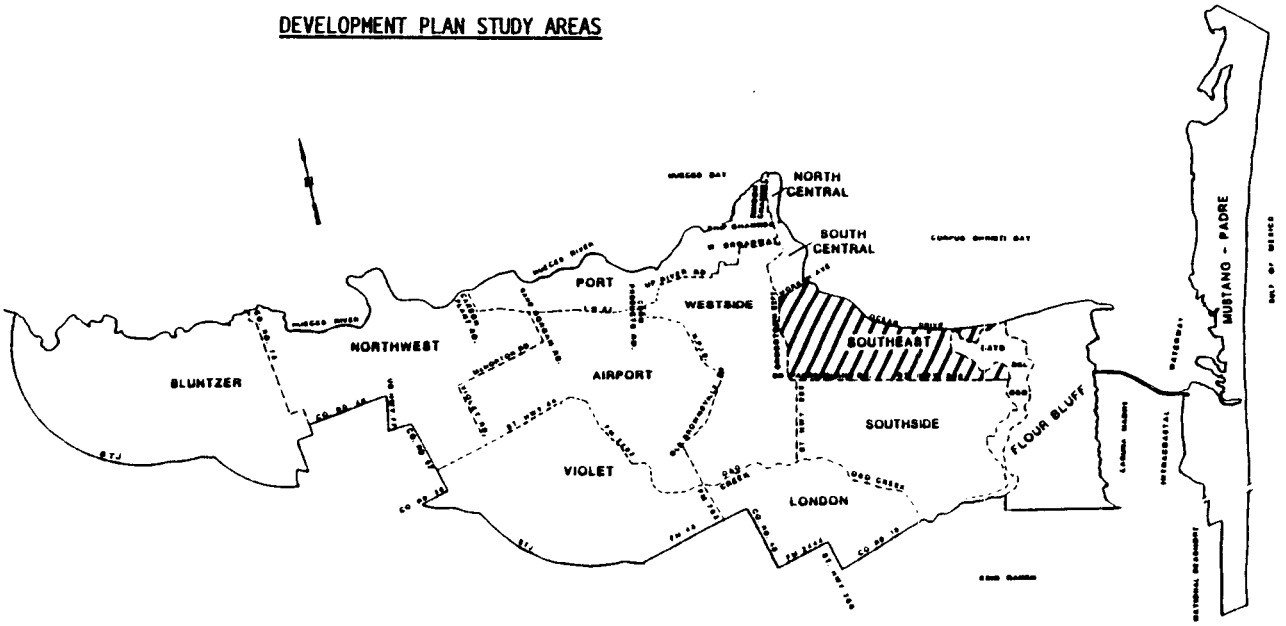
9. Clubhouse not recommended.

10. Large classes not recommended.

SOUTHEAST
AREA DEVELOPMENT PLAN

DRAFT
March 10, 1994

DEVELOPMENT PLAN STUDY AREAS



CITY OF CORPUS CHRISTI PLANNING AND DEVELOPMENT DEPARTMENT

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SOUTHEAST AREA DEVELOPMENT PLAN

INTRODUCTION

The Comprehensive Plan is mandated by the City Charter. It requires the City Council to "...establish comprehensive planning as a continuous governmental function in order to guide, regulate, and manage future development..." and, "all city improvements, ordinances, and regulations shall be consistent with the comprehensive plan."

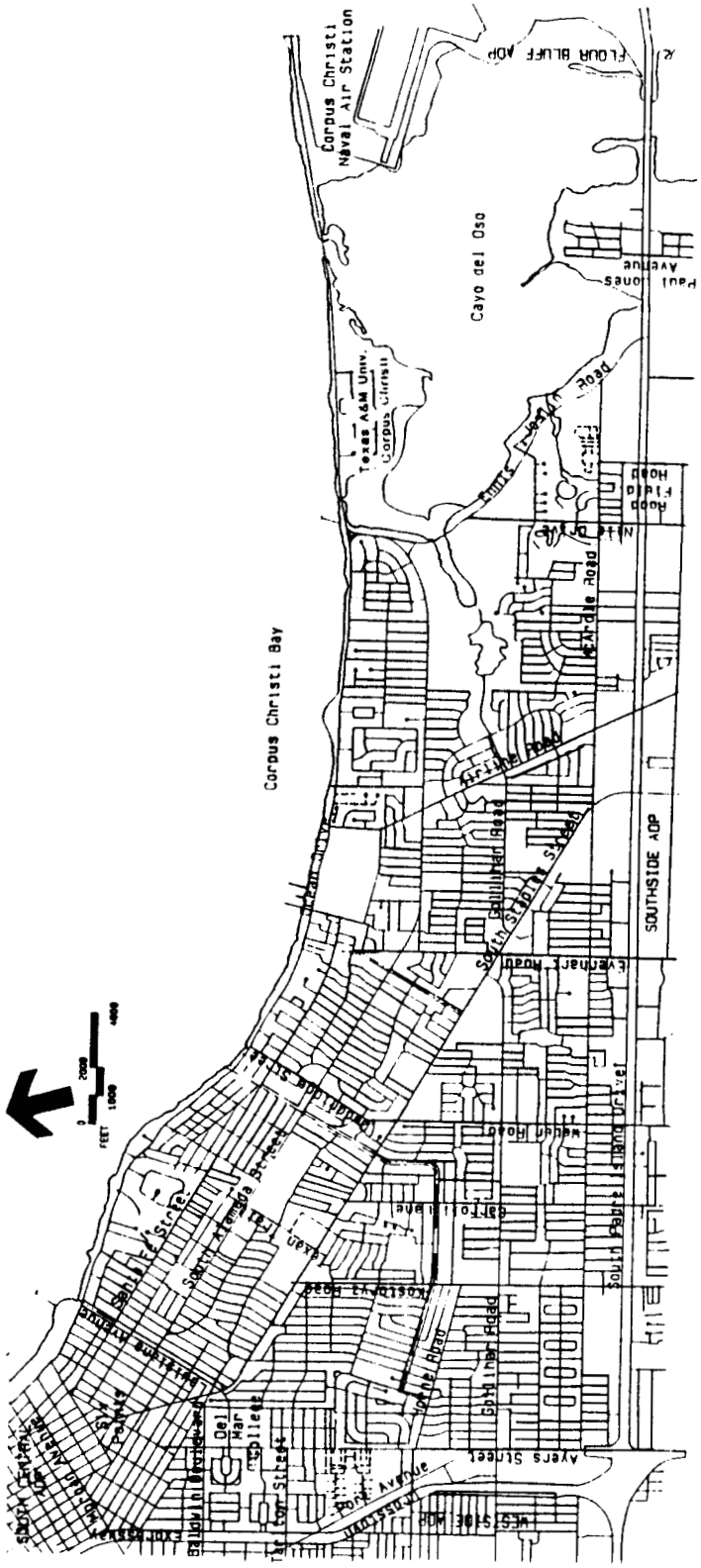
The Comprehensive Plan is a product of various documents such as Policy Statements, Area Development Plans, Capital Improvement Programs, and Master Utility Plans. The comprehensive planning process is a means whereby citizens and community leaders guide community development. The Comprehensive Plan, by definition, is general, long range, and broad in scope. To help formulate the Comprehensive Plan, City Council divided the city and its environs into 13 Area Development Plan (ADP) study areas.

Development plans for these areas will help provide direction in resolving basic land use issues such as zoning, platting of properties, allocation of public services and facilities, and other area specific issues. In many cases, follow-up programs are needed to implement Plan policies. Implementation of these plans assures the most appropriate land development and provision of public services. Coordination of the Capital Improvement Plan, other elements of the Comprehensive Plan and day-to-day actions of line agencies responsible for implementing the Comprehensive Plan, result in more cost effective development and tax dollar savings.

The Southeast Development Plan (SEADP) Area, is bounded on the north by Morgan Street; on the east by Corpus Christi Bay and the Cayo Del Oso; on the south by South Padre Island Drive (SPID); and on the west by the Crosstown Expressway. Points of interest within the Plan area include the Six Points/Spohn Hospital area in the northern section of the Plan area and the shopping malls along SPID. In addition the Plan area is characterized by the City's largest concentration of residential neighborhoods (see Figure 1).

Plan formulation included development of technical papers for the area which describe existing conditions and background information. These papers are available from the Planning Department.

FIGURE 1 SOUTHEAST STUDY AREA



PLAN GOALS AND OBJECTIVES

The Corpus Christi Policy Statements adopted by City Council in 1986 contain the guiding goals, objectives and policies for the entire City and Extraterritorial Jurisdiction (ETJ) . The policies of the Southeast Plan complement, and are more specific than the Corpus Christi Policy Statements.

The policies encompassed by this Plan address not only current issues, but needs that the City and Southeast area residents, property owners, and businesses perceive will become pressing in future years. Recognizing that not all suggested projects and programs will take place immediately, it is important to foresee and note problems and opportunities, and develop a long term strategy to address them.

Key policies of the Plan are printed in bold print. However, for a full understanding of each statement, refer to the entire text.

The specific goal of the Southeast Area Development Plan is to protect the predominantly stable residential neighborhoods and to promote the efficient development of under utilized and remaining vacant land in the Area. An awareness of the multiplicity of uses, variety of special interest groups, economic development needs, and long time frame needed to change, influences the policies and plans contained in the Area Development Plan. **Principle objectives include:**

- **a. Stabilize and conserve residential neighborhoods;**
- **b. Designate appropriate land uses and a transportation network to adequately serve existing and future land uses;**
- **c. Facilitate planning for replacement of deteriorated infrastructure;**
- **d. Protect the unique residential character of Ocean Drive;**
- **e. Revitalize deteriorated housing and promote new residential development in areas best suited for such development;**
- **f. Encourage a well-integrated development plan protects existing residential neighborhoods when conversion of residential use to higher intensity use occurs;**
- **g. Emphasize conflict-free pedestrian and bikeway corridors and pathways to connect the downtown area to Texas A&M University - Corpus Christi and the Southside;**
- **h. Preserve public access, scenic views, and recreational opportunities along the bayfront and the Cayo Del Oso; and**
- **i. Encourage development that protects the continued operation of NAS Corpus Christi.**

A. ENVIRONMENT

POLICY STATEMENT A.1

The City should continue to work with State and Federal agencies to balance protection of the environment with the development needs of the community. Some of these agencies include, but are not limited to, the Federal Emergency Management Agency (FEMA), the U. S. Corps of Engineers, the Texas General Land Office, Texas Water Commission, etc.

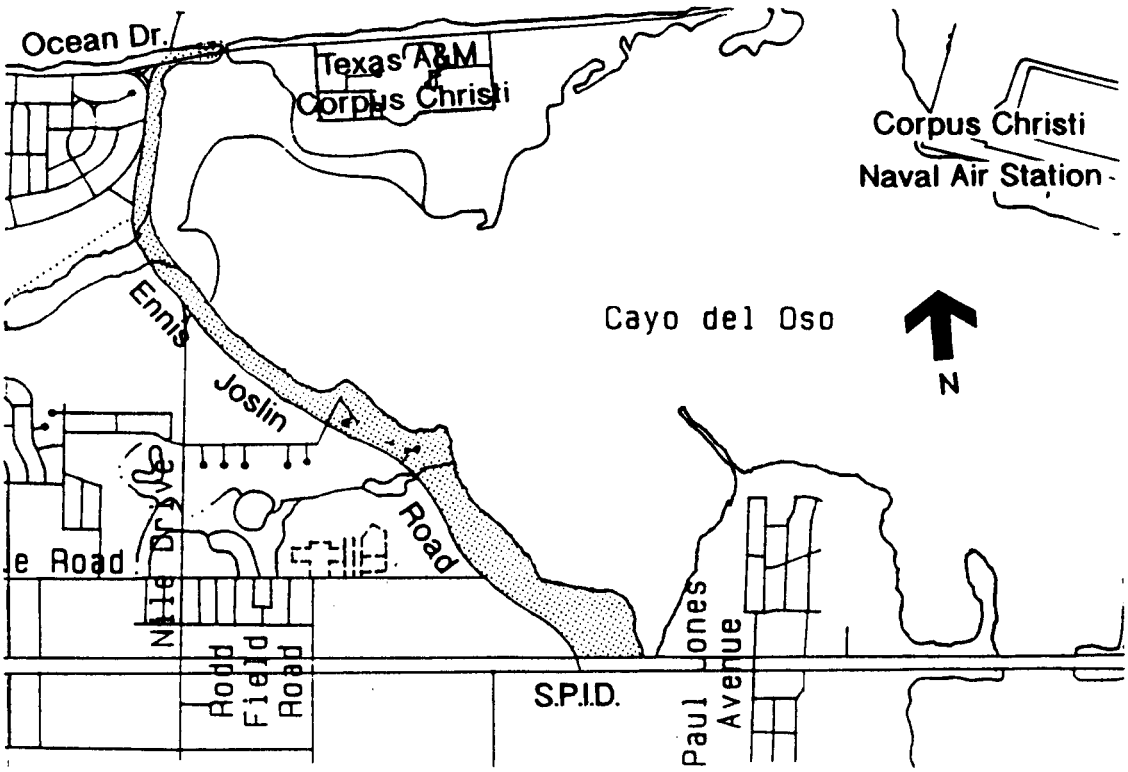
POLICY STATEMENT A.2

Maintain the one-mile minimum distance from the shoreline for any petroleum drilling operations.

POLICY STATEMENT A.3

The City should create an Overlay Zoning District (see Figure 2) between Ennis Joslin and the Cayo Del Oso similar to the Oso Parkway corridor recommended in the Southside, Westside, and Port/Airport/Violet Area Plan recommendations. Development in this area should protect the natural drainage ways, water quality, view vistas and natural plant/wildlife habitats. Secondarily, provide open space areas and hike/bike trail long Ennis Joslin and Ocean Drive shoreline areas. Protection of these features increases development potential for new residential, educational and recreational uses abutting the bayfront and the Cayo Del Oso.

FIGURE 2 CAYO DEL OSO OVERLAY AREA



The City should require a site plan review process for all developments in the Overlay Zone District. Site plan approval should be required prior to the issuance of any building permit. The process should include a quick turnaround so as not to unduly delay the development process. Any site plan appeal process should include a final determination by either an appointed board/commission or by the City Council.

The site plan may not necessarily require the services of a professional planner, architect, or engineer if the applicant can provide the required information. A site plan review process will assure coordination between City Staff and make development of environmentally sensitive areas easier to accomplish. When legislation (approved amendments to City Ordinances) is drafted to carry out this policy, the following information should be considered. In addition the legislation should address coordination between agencies of authority in a manner that will facilitate and not unduly delay the development process.

- a. Parcel or lot dimensions;
- b. The location, proposed use, size and height;
- c. Yard setbacks and space between existing and proposed structures;
- d. Parking, ingress, egress, and circulation;
- e. Grading/drainage;
- f. Placement and size of utilities;
- g. Screening;
- h. Required landscaping;
- i. Zoning;
- j. Notation and delineation of regulatory flood hazard or floodway boundary;
- k. Finished ground floor elevation;
- l. Location and delineation of wetlands as well as archeological sites and show Army Corps of Engineer Permit number;
- m. Provide copies of the Corps permit as well as any other permits required by a regulatory agency;
- n. Provide traffic, wastewater, and stormwater (utilities) impact reports showing compliance or non-compliance with various master plans and corrective action to ensure compliance; and
- o. Refuse collection facilities for multi-family, commercial and industrial activities.

POLICY STATEMENT A.4

The City Park and Recreation Department should coordinate with City Engineering Services, the Texas Parks and Wildlife Department, Texas A & M University - Corpus Christi, the Naval Air Station, and the U.S. Corps of Engineers to establish a program to:

- **a. Monitor Corpus Christi Bay and Cayo Del Oso shoreline erosion;**
- **b. Schedule shoreline maintenance of these public shorelines; and**
- **c. Propose capital improvement projects to protect the public shoreline.**

B. LAND USE

PLAN STATEMENT
B.1
The City Council, hereby, adopts the Land Use and Development Plan (Figure 3 and Table 1) and the accompanying text as a guide for future land use decisions. The Plan provides guidance for future land use decisions including rezoning, platting, fiscal management, and capital improvement planning. The Plan supports environmentally sound development and the efficient provision of public services and facilities.

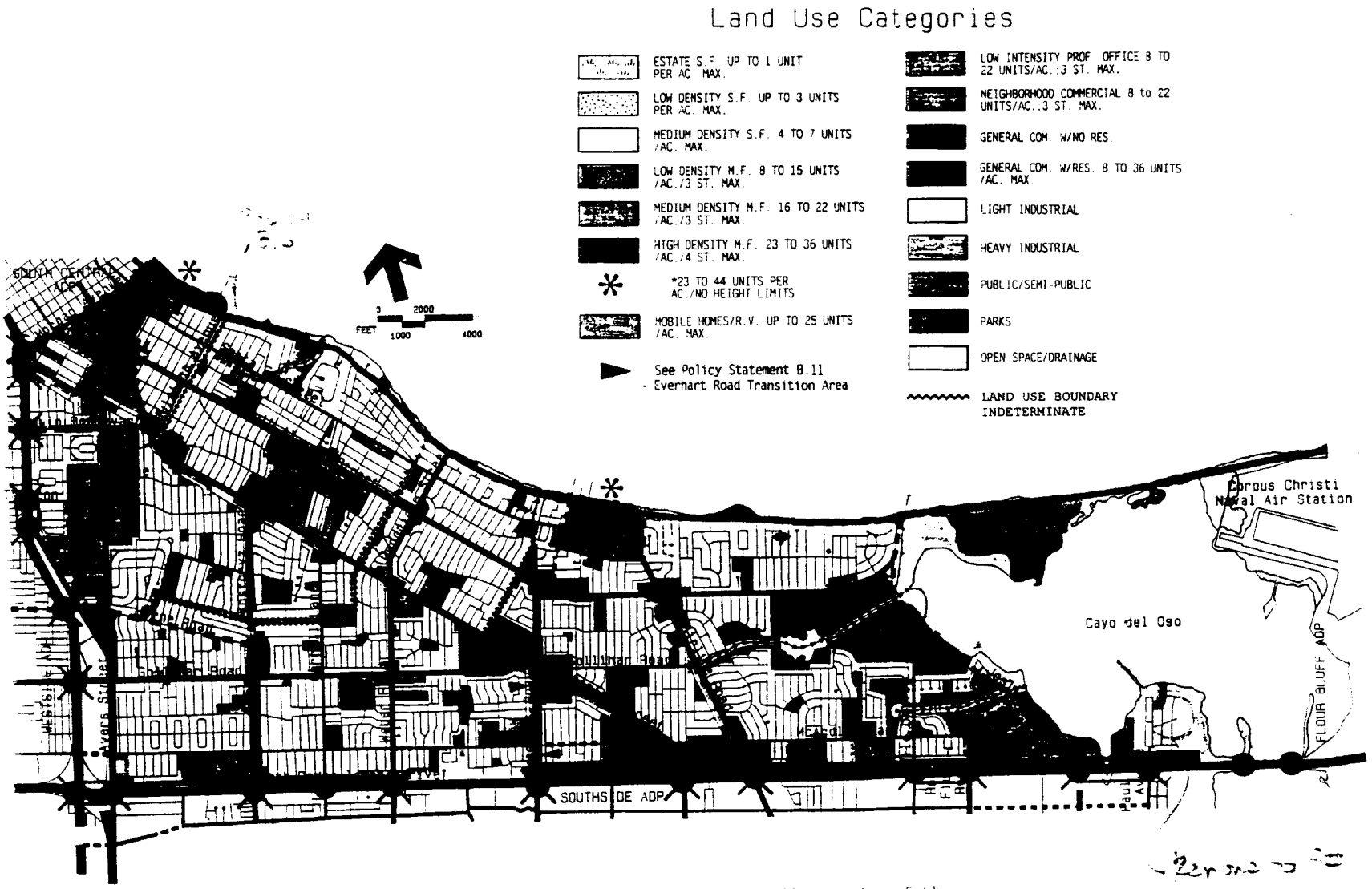
The future land use plan recommends those uses which are "most suitable." However, other uses which may also be acceptable are described in Table 1. Those uses described as "also acceptable are more likely to require special buffering to assure compatibility with adjacent uses, or perhaps some other improvements in order to meet the full intent of the Comprehensive Plan.

Table 2 indicates the total acreage of future land uses and potential population of an ultimately developed in the Southeast area.

POLICY
STATEMENT
B.2
In Table 1, Future Land Use Suitability, the "most suitable land use" column indicates those land uses least likely to cause negative impacts to the surrounding area and which are thought to most directly benefit the public health, safety and welfare of the community. Uses described as "also acceptable" might be permissible but they are likely to be negatively impacted by the most suitable use or surrounding uses unless steps are taken to buffer negative impacts. Steps that should be taken to prevent negative impacts and promote sensitive design are:

- **a. Lighting from non-residential uses should be directed away from residential areas;**
- **b. Noise impacts from non-residential uses should be reduced by creating a buffer open space between the two areas. Such spaces may be landscaped areas, a street, a screening fence, larger setbacks, etc. These methods can be used singularly but are usually most effective when applied in combination to provide the desired effect;**
- **c. Placing low intensity activities next to single family uses; and**
- **d. Because non-residential areas are considered most suitable next to higher level roads, "also acceptable" uses will need to be buffered from negative traffic noise impacts if they are located immediately next to the highway.**

FIGURE 3 LAND USE AND DEVELOPMENT PLAN



NOTE: This future land use plan map is illustrative of the goals, policies, and objectives of the Comprehensive Plan. However, the map should not be used by itself to determine City Council intent. For a full understanding please refer to detailed plan text.

TABLE 1 FUTURE LAND USE SUITABILITY

SOUTHEAST	ALSO ACCEPTABLE													
MOST SUITABLE FUTURE LAND USE	FARM/RURAL	ESTATE DEN SF	LOW DEN SF	MEDIUM DEN SF	LOW DEN MF	MEDIUM DEN MF	HI DEN MF	MOBILE HOMES	LOW INT PROF OFF	NEIGHBORHOOD COM	COM W/NO RES	COM W/RES	LIGHT INDUSTRIAL	HEAVY INDUSTRIAL
FARM/RURAL SF; Up to 1 Unit Per 5 Acres														
ESTATE DEN SF; Up To 1 Unit/Ac	√													
LOW DEN SF; Up To 3 Units/Ac	√	√												
MED DEN SF; 4 to 7 Units/Ac		√	√											
LOW DEN MF; 8 to 15 Units/Ac; 3 St Max			√	√										
MEDIUM DEN MF; 16 to 22 Units/Ac; 3 St Max				√	√									
HI DEN MF; 23 to 36 Units/Ac; 4 St. Max.				√	√	√								
MOBILE HMS/RV's; Up to 25 Units/Ac.														
LOW INTENSITY PROF OFFICE; 8 to 22 Units/Ac.;3 St. Max.					√	√								
NEIGHBORHOOD COM; 8 to 22 Units/Ac.;3 St. Max.					√	√			√					
GENERAL COMMERCIAL W/NO RESIDENTIAL									√	√				
GEN COM W/ RES; 8 to 36 Units/Ac.					√	√	√		√	√				
LIGHT INDUSTRIAL									√	√	√			
HEAVY INDUSTRIAL									√	√	√		√	

TABLE 2 SOUTHEAST DEVELOPMENT PLAN ULTIMATE DEVELOPMENT LAND USE ASSUMPTIONS

PROPOSED LAND USES	*TOTA ACREAGE*	*%*	*HOUSING UNITS[1]*	*ULTIMATE POPULATION[2]*
Farm/Rural SF	*0*	*0.0*	*0*	*0*
Estate Density SF	*0*	*0.0*	*0*	*0*
Low Density SF	*0*	*0.0*	*0*	*0*
Medium Density SF	*6,225*	*56.1*	*25,678*	*61,627*
Low Density MF	*238*	*2.1*	*2,053*	*4,927*
Medium Density MF	*546*	*4.9*	*7,788*	*18,691*
High Density MF	*12[illegible]*	*1.2*	*2,832*	*6,797*
Mobile Homes/RV's	*0*	*0.0*	*0*	*0*
Low Intensity Prof Office	*190*	*1.[illegible]*		
Neighborhood Com	*207*	*1.9*		
General Commercial w/No Res	*0*	*0.0*		
General Commercial w/Res	*905*	*8.1*		
Light Industrial	*221*	*2.0*		
Heavy Industrial	*0*	*0.0*		
Public/Semi-Public	*1,288*	*11.6*		
Parks	*744*	*6.7*		
Open Space/Drainage	*405*	*3.6*		
Total	*11,097*	*100.0*	*38,351*	*92,042*

** Residential land uses are discounted by 25 percent to account for transportation needs.

*** Population estimates are totals for **ultimate** build out and are based on full occupancy, average household size of 2.4 persons, and a mid-point each residential density range.

POLICY
STATEMENT
B.3

? by. Laurie Cook.

Redevelopment of properties within the area north of Ayers Street and east of Brownlee Boulevard should be sensitive to the remaining residential neighborhoods. Much of this area is used for single family or multi-family residential or for professional offices. Professional office uses are generally compatible with single and multi-family development in this area. However, commercial uses would have a more adverse effect and should only be considered for sites with frontage on an arterial street. Any commercial development should also be carefully planned to include sufficient transitioning (buffering, such as greater setbacks, fences, landscaping, height limitations, reduced signage etc.).

POLICY
STATEMENT
B.4

The City should encourage the Regional Transportation Authority and the Six Points Property Owners to improve the retailing environment of the Six Point Shopping Center. Major improvements should include:

- **a. Alameda and Staples median improvements;**
- **b. Sidewalk and crosswalk improvements; and**
- **c. Facade, landscaping, and other urban design improvements.**

More detail on each of the above recommendations can be found in the RTA & Six Points Study conducted by the Regional Transportation Authority (fall 1992). If the property owners in the area request it, the City should consider the creation of a new zoning district and/or urban design guidelines for the Six Points area.

POLICY
STATEMENT
B.5

Industrial zoned areas in the Southeast should not be expanded more then shown in the Land Use and Development Plan. Existing industrial uses should be permitted to continue and allowed limited expansion as shown in the Land Use and Development Plan.

POLICY
STATEMENT
B.6

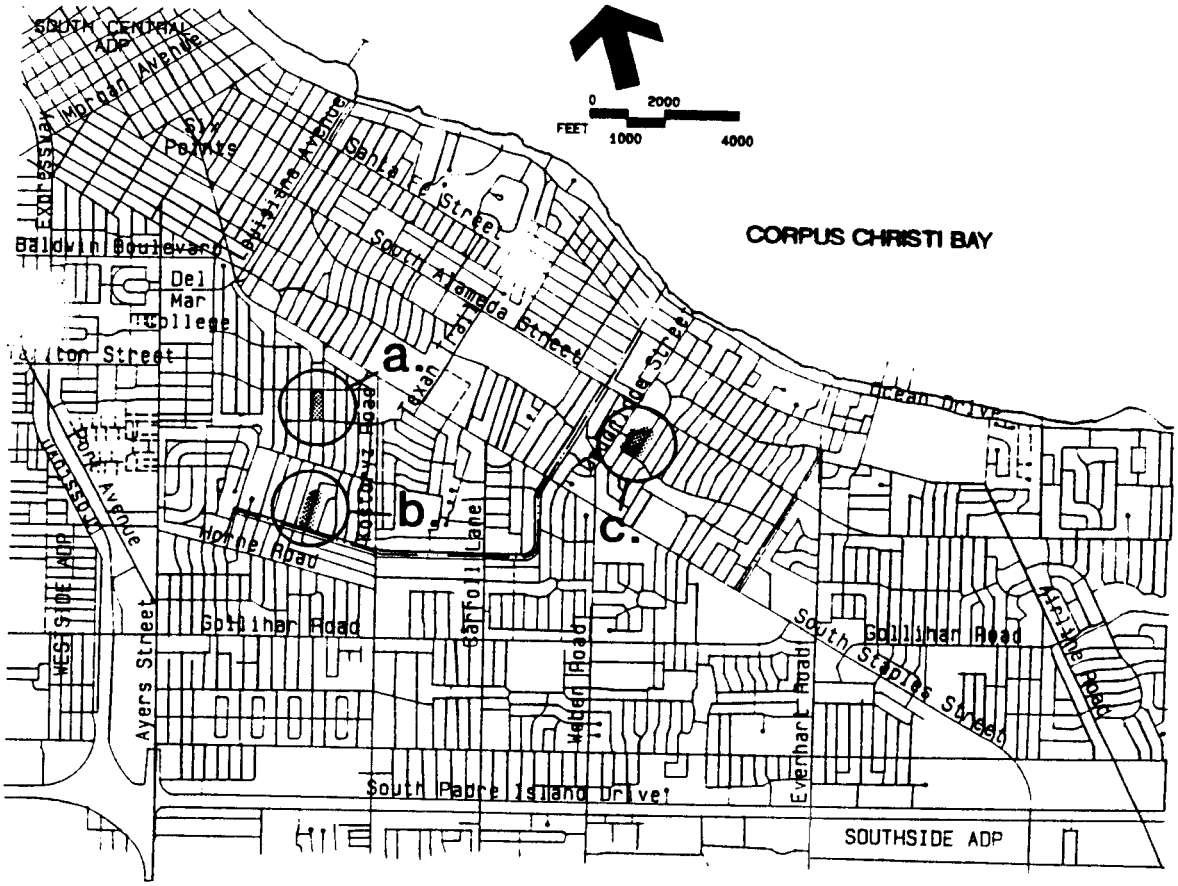
Ocean Drive is a unique, scenic, predominately single family residential arterial from Morgan Avenue to Alameda and rezonings to higher density multi-family or commercial should not be entertained favorably.

POLICY STATEMENT B.7

Several areas are completely developed with stable single family residential land use but are zoned multi-family. These areas should be rezoned from multi-family zoning to single family zoning in order to protect the existing stable single family residential uses:

- **a. Maryland and Devon Streets between Blevins and Orlando Streets;**
- **b. Lazy Lane north of Brawner Parkway to existing multi-family uses; and**
- **c. Wilshire Place and Delaine Drive between Alameda Street and Reid Drive.**

FIGURE 4 PROPOSED AREAS FOR REZONING FROM MULTI-FAMILY TO SINGLE FAMILY



POLICY STATEMENT B.8

The City encourages development that is compatible with the Naval Air Station, and other air installations. A primary concern associated with these Naval facilities is land use compatibility in the Navy's Air Installation Compatible Use Zones (AICUZ). These are areas where, due to frequency of over flights and other factors, a measurable potential for aircraft accidents is present. The geographic areas covered by these zones may change in the future due to changes in operations at the air fields, changes in the aircraft using the runways or other factors. The City should maintain constant contact with the Navy to maintain accurate record of any changes to these zones and change as appropriate any city regulations pertaining to these AICUZs.

Most of the land area in the Southeast area affected by clear zones and accident potential zones is on Ward Island. A small portion of Ward Island is privately owned and this policy and subsequent ordinances could be applied to the private property. However, most of Ward Island is owned by the State of Texas (Texas A&M University - Corpus Christi). Because Texas A&M University-Corpus Christi is an entity of the State of Texas, zoning regulations and other codes and requirements can not be applied to this area without the permission of the State of Texas. Therefore, the City should encourage the Texas A&M University-Corpus Christi to balance its needs for expanding the University with the guidelines and safety concerns expressed by the City and Navy in these areas.

Within AICUZs there are three areas with different degrees of accident potential: Clear Zones (CZ); Accident Potential Zone 1 (APZ-1); and Accident Potential Zone 2 (APZ-2). Naval guidelines suggest that Clear Zones be purchased by the Navy as they are the most hazardous areas. Accident Potential Zone 1 is the second highest area of concern and Accident Potential Zone 2 is least hazardous of the three areas.

Existing zoning ordinance regulations do not comprehensively address concerns associated with land use compatibility in the Navy's Accident Potential Zones. Dense residential developments or non-residential uses which congregate large groups of people should be prohibited in Accident Potential Zones.

Due to the significant amount of existing development within these APZs it is not feasible, at this time, to strictly follow the Navy's use guidelines which call for:

o a. Accident Potential Zone 1 - prohibit residential uses and non-residential uses which may congregate large groups of people.

o b. Accident Potential Zone 2 - limit residential development to 1 or 2 units per acre and prohibit non-residential uses that may congregate large groups of people.

Given these concerns the following short and long term objectives are recommended:

■ SHORT TERM OBJECTIVES

o a. The City encourages the Navy to continue purchasing any remaining clear zone areas as these are the most hazardous of the Navy's Air Installation Compatible Use Zones.

○ b. Non-residential uses and residential uses that may congregate large groups of people should be prohibited from locating in APZ - I or APZ - II areas. The City should create an APZ Overlay Zone, for APZ areas (see Figure 5), to prohibit the following new and similar uses in any underlying base zoning districts:

- hospitals
- places of worship (indoor or outdoor)
- schools/universities
- stadiums/athletic fields
- fairgrounds/circus grounds
- child care centers/nursing homes
- theaters/au[illegible]riums (indoor or outdoor)
- exposition [illegible]s
- clubs and bars with seating for more than 50 people or for more than 100 persons per acre
- amusement park
- motels/hotels
- public swimming pools, or natatoriums
- any private or public facility for assembly, which averages more than 100 persons per acre.
- any new residential use with a density of greater than 1 unit per net (does not include street right-of-way or other public properties) acre for APZ-1 and 2 units per net acre for APZ-2 except where the base zoning is more restrictive, then use base zoning residential density/use requirements.

In addition, storage of explosives should be prohibited in any Clear Zone or Accident Potential Zone.

○ c. City housing rehabilitation programs should only be used in areas where residential land use is recommended and where residential zoning exists.

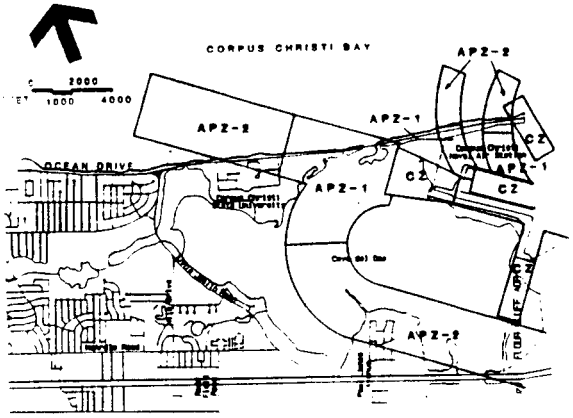
○ d. Public purposes bein[illegible]erved by existing and planned expansion to Texas A & M University - Corpus Christi are considered ap[illegible]opriate.

○ e. Consider rezoning (base zoning district) of vacant, and unplatted property that is not consistent with AICUZ objectives. The remaining vacant unplatted property east of South Bay Subdivision located under APZ - 2 should be considered for rezoning, consistent with these objectives.

■ LONG TERM OBJECTIVES:

○ a. Continue overlay zone requirements contained in the short term objective and consider prohibiting new residential uses in APZ-1.

FIGURE 5 AIR INSTALLATION COMPATIBILITY USE ZONE



AICUZ (AIR INSTALLATION COMPATIBLE USE ZONES)

CZ

Clear Zone - acquired by Navy; no development recommended.

APZ-1

Accident Potential Zone I significant potential for aircraft accidents; recommend no residential, commercial, or industrial development congregating large groups.

APZ-2

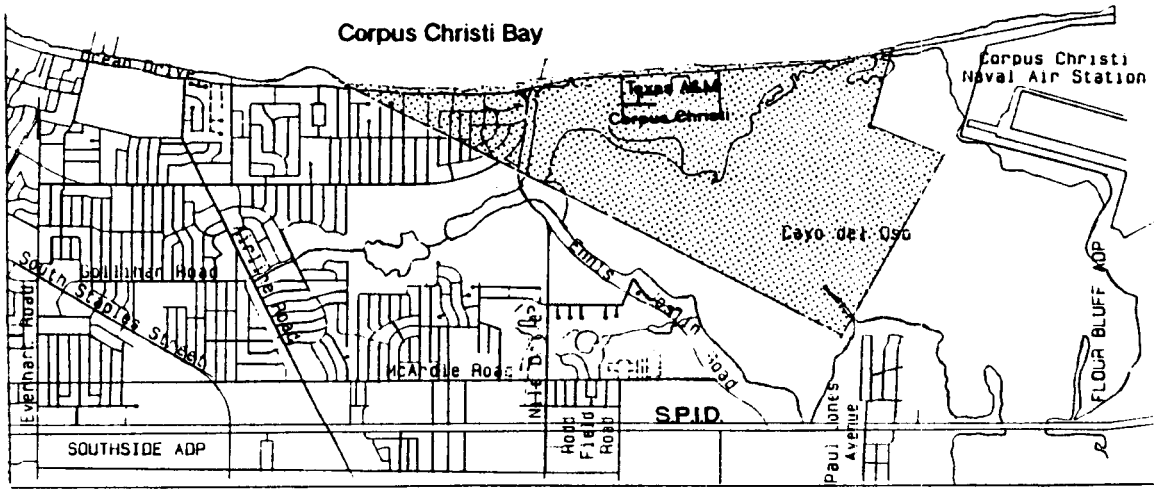
Accident Potential Zone II - measurable potential for aircraft accidents; recommend limited residential development (1 to 2 dwelling units /acre). Commercial and industrial development limited to uses not congregating large groups.

POLICY STATEMENT B.9

The Joint Airport Zoning Board should amend the Military Airport Zoning Height Regulations to address the Horizontal Imaginary Surface height limitation guidelines established by the Navy for the Naval Air Station. (see Figure 6) The City's current height limitation zoning ordinance meets minimum height restrictions of the Federal Aviation Administration (FAA). However, the Navy has published height limitation guidelines that, in some areas, would be more restrictive then the FAA requirements and the current city airport zoning ordinance. Figure 6 below displays those areas where a more restrictive height limitation is recommended. It is important that new development not intrude into the Horizontal Imaginary Surface as this aircraft approach is use during times when visibility is poor, and for pilot training.

If this policy is adopted, implementation could be required of all new development on private property. However, the City cannot restrict development of State lands. Therefore, the City should encourage Texas A&M University-Corpus Christi on Ward Island, to discuss future development with the City and Navy and balance development needs in a way that will not limit or place continued operation of NAS Corpus Christi in jeopardy.

FIGURE 6 NAS HORIZONTAL IMAGINARY SURFACE



Areas where the existing Military Airport Zoning Ordinance would allow construction heights greater than provided under the Horizontal Imaginary Surface (backup to primary approach) established by the Navy for the Naval Air Station.

POLICY STATEMENT B.10

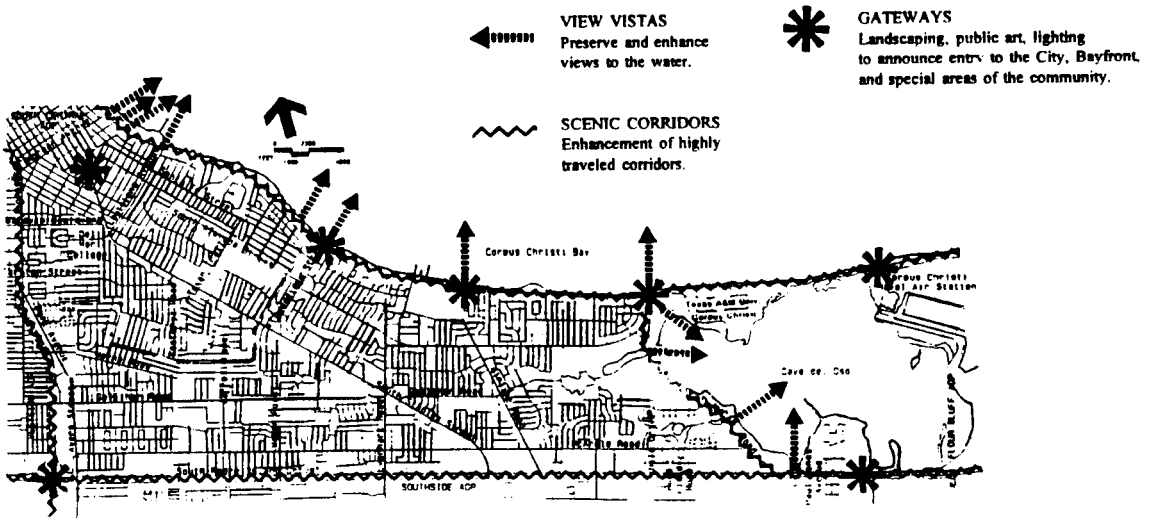
The City should establish development regulations along streets designated as scenic corridors, and at points designated for view vistas and gateways. (See Figure 7)

<u>Scenic corridors</u> are rights-of-way where the City wishes to enhance highly traveled streets or entry ways. The primary emphasis is on providing an attractive view from a vehicle or pedestrian passing.

View vista defined as points of public land where the City wishes to preserve a clear line of site to a natural or manmade feature. Those features might include a bay, a special district, or an historic structure. Primary emphasis is on the view from a right-of-way corridor to the point of interest.

Gateways are designed to give a sense of place marking passage from one area to another. For example, Six Points, the intersection of Ocean Drive and Alameda Street, and the intersection of South Padre Island Drive and Crosstown Expressway. Major landscaping, public art, and special effect lighting are appropriate at gateways. When these improvements are made they will create a more distinct and memorable place.

FIGURE 7 SCENIC CORRIDORS, VIEW VISTAS, AND GATEWAYS



View vistas should be under public control whenever possible or protected through special permits as appropriate.

Design objectives along view and scenic corridors and gateways include:

- a. Landscaping on private property should be consistent with the Landscape Ordinance and the planting theme established in the area (i.e. Ocean Drive area median with it's palm plantings)
- b. Private and public signage of all types should have stringent design controls consistent with the tourist and recreational theme of the Bayfront. Public signage should be standardized and billboards and portable signs should be eliminated;
- c. Utilities should be placed underground; and
- d. Public art projects could be placed in gateways and strategically located in scenic corridors, consistent with the Municipal Arts Commission's public art guidelines and plan.

POLICY STATEMENT B.11

Much of the area long Everhart Road between SPID and Staples Street is transitioning from residential, office and neighborhood commercial use to a more intensive commercial use. As this transition occurs the City will encourage the most intensive nodes of commercial development at the intersection of SPID and Staples Street. Between these high intensity nodes of commercial development the City will encourage a transition to a combination of unrestricted neighborhood commercial uses and some limited general commercial uses.

Over a period of years the increase in traffic flow on Everhart Road has made residential areas less desirable for residential use and attractive for intensive commercial redevelopment. The City's Special Permit (Zoning Ordinance) has been used to grant general commercial uses for many of these properties while retaining the underlying low intensity zoning district. As this area continues to redevelop with commercial uses, the City should require property owners to develop their properties in a way that will minimize negative impacts to adjacent residential neighborhoods and lessor commercial uses still going through transition. The following design objectives and list of prohibited uses should be applied to this area.

- a. No loading areas allowed within 50' of the rear property line and within 10' of the side property lines which abut single family zoning districts.
- b. No trash dumpsters allowed within 50' of the rear property line and within 10' of the side property lines which abut single family zoning districts.
- c. Lighting directed away from residential areas.
- d. No public address systems allowed and noise attenuation techniques may be required. For example, noise attenuation may include an eight foot screening wall instead of a standard 6' fence. Another example might be to prohibit garage doors along the rear of a building (side next to residential zoned area) to reduce noise from auto repair shops.
- e. Prohibited uses - uses associated with noise or high traffic generation beyond the usual business hours of 8 a.m. to 7 p.m. should be prohibited. Such uses would include but are not limited to bars, clubs, dance halls or taverns; billiard parlors, bowling alleys, or skating rinks; 24 hour printing, publishing or engraving.

Implementation of these design objectives should be accomplished by the existing Special Permit process.

C. TRANSPORTATION

PLAN STATEMENT C.1

The City Council adopts the Transportation Plan (see Figure 8) as the guide for future transportation decisions. Wherever this transportation plan calls for additional rights-of-way (than currently exists), such future right-of-way line is considered to be the property line when measuring building setbacks, in order to prevent construction of buildings, signs or any other permanent structures that would block these future rights-of-way. The transportation network of this plan constitutes an amendment to the City's Transportation Plan. These changes, which are a function of Texas Department of Transportation funding, will be submitted for review and inclusion in the Metropolitan Planning Organization's Urban Transportation Plan. Changes to the City's Transportation Plan include:

- a. Make Ocean Drive's planned cross-section consistent with its existing improvements of four lanes with landscaped median. A long term objective of the plan is to protect and preserve this truly unique scenic corridor. Another major objective for future improvement of this boulevard is to increase pedestrian safety by allowing dedication of sidewalk easements in locations where sidewalks are not available or where the sidewalk is too narrow in lieu of the otherwise required right-of-way dedication. Because so much of this highway segment is already developed and the potential for acquiring the right-of-way or easement through the platting process is very limited. Therefore, public acquisition through purchase will be required in many cases.

- b. Continue the theme of Ocean Drive's landscaped median along the Cayo Del Oso and accommodate larger volumes of traffic to Texas A&M University-Corpus Christi and the Naval Station by upgrading Ennis Joslin ultimately to six travel lanes with landscaped median within 120 feet of ROW. However, interim, or medium range, improvements may be constructed with lesser improvements as dictated by traffic warrants and funding limitations. Median cuts for left turns on the ultimate roadway should be reduced to protect traffic carrying capacity. Such median cuts may occur at street intersections;

- c. In the long term, as traffic congestion on Ocean Drive continues to increase the level of service on Alameda, Santa Fe and 3rd street should be improved in order for these arterial to function as overflow or relief routes for commuter through traffic. The following long range improvements should be accomplished to provide relief to Ocean Drive traffic congestion;

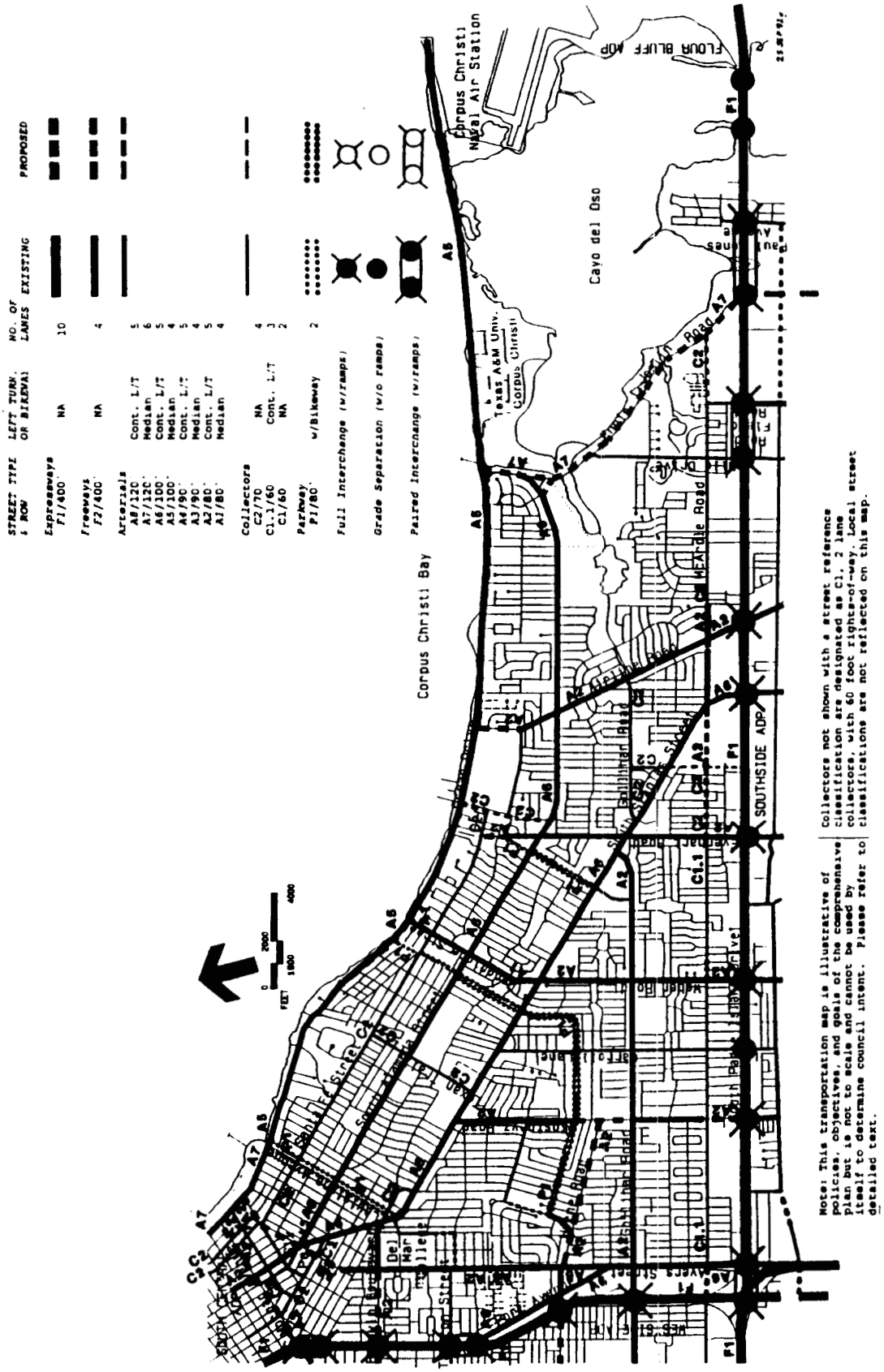
  1) Improve through movement of traffic on Alameda, Santa Fe and 3rd street with "real-time" traffic responsive signal coordination.

  2) Provide a smoother connection between Ennis Joslin Road and Alameda Street. (see Figure 8) This will provide more direct traffic flow between Ennis Joslin and Alameda, thus serving to relieve commuter through traffic from Ocean Drive.

  3) Provide a more direct connection of Santa Fe Street with Third Street. The preferred connection is illustrated on Figure 10, where Third Street would be realigned (approximate alignment), between Elizabeth and Ayers Streets, near Spohn Hospital.

  4) Preserve the opportunity (via existing street and drainage right-of-way) for an Everhart to Santa Fe connection as one of several options to relieve congestion on Alameda Street and on Aberdeen Avenue.

FIGURE 8 TRANSPORTATION PLAN



5) Analyze the need for a RTA park and ride facility throughout the study area and the city. The primary function of such a facility is to reduce congestion, consumption of fuel, and to protect the air quality. A secondary benefit is the relief of the parking requirement at Texas A&M University-Corpus Christi freeing the limited space available for education and related activities and buildings. Such a facility should include security.

- d. Redesignate Ayers Street, between Ocean Drive and Baldwin Boulevard, 80 foot arterial with five lanes;

- e. Reduce the proposed cross-section on Ayers Street, south of Baldwin Avenue, from 100 foot arterial with 7 lanes to an 80 foot arterial with five lanes;

- f. Redesignate Elizabeth Street, between Ocean Drive and Brownlee Boulevard, from an 80 foot arterial with five lanes to a 70 foot collector with four lanes;

- g. Increase the proposed cross-section of Brownlee Boulevard, between Morgan Avenue and Staples Street, from a two lanes collector to an 70 foot collector with four lanes;

- h. Designate Booty Street as a 60 foot collector with two travel lanes;

- i. Designate Alameda Street north of Booty as a 60 foot collector with two travel lanes;

- j. Designate Naples Street, between Staples and Blevins Streets, as a 70 foot collector with 4 lanes;

- k. Decrease the proposed cross-section of Ramsey Street, between Horne Road and Brawner Parkway, from an arterial with five lanes to an 70 foot collector with four lanes;

- l. Increase the proposed cross-section of Horne Road, between Ramsey Street and Kostoryz Road, from a two lane collector to a 70 foot collector with four lanes;

- m. Redesignate proposed cross-section of McArdle Road between the Crosstown Expressway to Holmes Street/Lions Park, from two lanes to a 60 foot collector with 2 lanes and a center left turn lane and no parking;

- n. Redesignate McArdle Road between Holmes Street/Lions Park to Crescent Street from a collector to an arterial with 80 feet of right-of-way, 4 lanes and a continuous center left turn lane.

- o. Redesignate proposed cross-section of McArdle Road between Crescent Street and Ennis Joslin Road, from two lanes to a 70 foot collector with four lanes with no parking between Nile Drive and Ennis Joslin Road.

- p. Extend Mustang Trail, between Staples Street and S.P.I.D., as a 70 foot, 4 lane network-serving collector;

- q. Retain only those collectors, as indicated in Figure 8, which are currently or projected to meet the traffic demands as an urban collectors on the Transportation Plan. Reclassify the following

streets, which are indicated on the current Transportation Plan as urban collectors, to minor collectors or residential streets. Identify and amend the Urban Transportation Plan to reflect these changes:

- Angel/Breezeway/Oleander Streets
- Churchill/Shely/Logan Streets
- Blevens Street (between Naples and Staples Streets)
- Casa Linda Street(Norton to Staples)
- Swantner Street (Texas to Glazebrook)
- Reid Drive
- Rossiter Street
- Center Street
- Dulaine Street
- Ft. Worth Street
- Catalina Street
- Harry Street
- Belmeade Street
- Gollihar Road (Airline to Belmeade)
- Harbor Lights/Cayo Drive

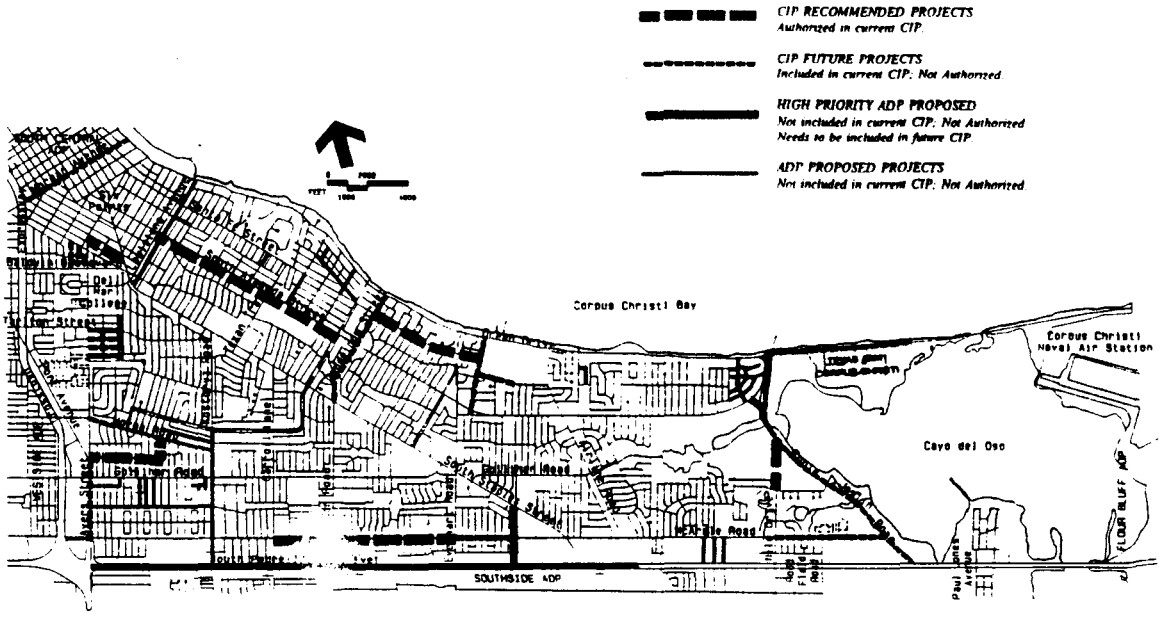
POLICY
STATEMENT
C.2
CAPITAL IMPROVEMENT NEED

Policy objectives in descending order of priority for improvements should be projects that will efficiently serve the Southeast Area with emphasis on:

- **a. Completion of currently authorized street projects;**
- **b. Improve entry/exit access and traffic capacity enhancements for the SH 358 (SPID) expressway and other arterial and collectors streets as identified in the "Analysis of Retail Development and Adjacent Transportation Infrastructure in the City's Southside," and MPO study from FY 92/93;**
- **c. Improving access to and from Texas A&M University-Corpus Christi; and**
- **d. Relieving of congestion and creating a safer pedestrian environment on Ocean Drive.**

The following is a prioritized list of transportation improvement projects (see Figure 9) for the Southeast area. This prioritized list is subject to change during the City's annual capital improvement prioritization process. The list is broken down into four categories:

FIGURE 9 TRANSPORTATION IMPROVEMENT PLAN



■ a. CIP Recommended Projects - authorized in current Capital Improvement Program;

1) McArdle Road - Everhart Road to Carroll Lane - curb/gutter/sidewalk improvements.(Funded with 1986 bond monies; construction scheduled to be completed in 1995)

2) Del Mar Neighborhood street improvements - street reconstruction and curb/gutter/sidewalk improvements. [Phase 2 (completed) & Phase 3 under construction by 1994, funded [illegible] 1986 bond monies; Phase 1 will be the last phase to be completed]

3) Street Overlay Program - Alameda Street between Louisiana and Doddridge; and Santa Fe Street between Doddridge Street and Robert Drive. (Approved in 1986 Bond Program - bond monies not sold)

4) Wynn Seale School Area street improvements - curb/gutter/sidewalk improvements. [Phases 1 (under construction) & 2 funded with CDBG monies; Phase 3 needs funding from future CDBG program]

5) Nile Drive - Ennis Joslin Road to Pharaoh Drive - curb/gutter/sidewalk improvements. (Approved in 1986 bond program; bond monies programmed to be sold in 1993 and construction to be completed in 1995) Construction of Nile Drive improvements will be coordinated with TxDOT's Spur 3/Ennis Joslin improvements.

6) Alexander and Grove Streets - curb/gutter/sidewalk improvements. (Approved in 1986 bond program as part of SPID/Ayers Street Area Streets, bond monies programmed to be sold in 1992 and construction to be completed in 1994)

7) Traffic Signal Improvements - Improve traffic control throughout the plan area through the use of "real-time" traffic responsive signal control.

8) Texas A&M University-Corpus Christi Access Improvements:

a) Ocean Drive, Alameda Street and Ennis Joslin Road Intersections;

b) Ennis Joslin Road - Alameda Street to SPID; and

c) Ocean Drive - Alameda to Texas A&M University-Corpus Christi.

■ b. CIP Future Projects - included in current CIP, however, not authorized;

9) McArdle Road - Everhart Road to Holmes Street - street widening and curb/gutter/sidewalk improvements.

10) Ayers Street - Port to Nemec - street widening and curb/gutter/sidewalk improvements.

11) Robert Drive - Ocean Drive to Alameda Street - street widening and curb/gutter/sidewalk improvements.

12) Street Overlay Program:
a) Morgan - Ocean Drive to Crosstown Expressway; and

b) Doddridge - Ocean Drive to Staples Street.

13) Horne Road - Ramsey Street to Kostoryz - curb/gutter/sidewalk improvements.

14) Sidewalk Improvement - Cole Park.

15) Divert existing through traffic on Everhart Road east of Alameda away from Aberdeen Street.

16) McArdle Road - Nile Drive to Ennis Joslin Road - street widening and curb/gutter/sidewalk improvements.

17) Santa Fe/Third Street Connection. (See Figure 11)

18) Bonita Addition Street Improvements - curb/gutter/sidewalk improvements.

19) Southmoreland Addition Street Improvements - curb/gutter/sidewalk improvements.

20) Gaines Street - Robert Drive to Ashland Street - curb/gutter/sidewalk improvements.

21) Crosstown Expressway pedestrian barriers.

■ c. High Priority ADP Projects not included in current CIP and should be added to the CIP Recommended category.

22 Facilitate traffic capacity along SPID frontage roads and signalized interchanges. Possible solutions include ramp reversal, ramp relocation, ramp scissoring, signalized signal control along frontage roads, etc. Other possible solutions may be derived from the MPO study entitled "Analysis of Retail Development and Adjacent Transportation Infrastructure in the City's Southside."

23) Mustang Trail - extend as a network serving collector between South Staples Street and South Padre Island Drive.

24) Alameda Street - Ocean Drive to Ennis Joslin Road - improvements to accommodate Texas A & M University - Corpus Christi (TAMU-CC) increased student population.

25) Ennis Joslin extension to Alameda - through the northeast portion of Oso Beach Municipal Golf Course. This street improvement would require the rearrangement of several golf holes.

26) Santa Fe Street widening - Doddridge to extension of Everhart Road. The extension of Everhart Road to Santa Fe would also require the narrow pavement width within the section of Santa Fe to be widened to provide minimum 11 feet wide travel lanes.

■ d. ADP Proposed Projects not included in current CIP and should be included in the Future CIP category.

27) Kostoryz Road - SPID to Brawner Parkway - increase from four lanes to five lanes with a continuous center left turn lane.

28) Houston Street - Kostoryz to Greengrove - street widening and curb/gutter/sidewalk improvements.

29) Louisiana Boulevard (northbound only) - Ocean Drive to Staples reconstruction of the street, and Lawnview Street - Louisiana to Texas - curb/gutter/sidewalk.

30) Ayers Street - Ocean Drive to Six Points - street reconstruction.

31) Morgan Street - Ocean Drive to Crosstown Expressway - street widening and curb/gutter/sidewalk improvements.

32) McArdle Road Extension - Ayers to Crosstown Expressway.

33) Sunnybrook Area Streets - curb/gutter/sidewalk improvements.

34) Rossiter Street - Alameda to Santa Fe - curb/gutter/sidewalk improvements.

35) Glazebrook Street - Alameda to Santa Fe - curb/gutter/sidewalk improvements.

36) Wray Lane - Paloma to Jarvis - curb/gutter/sidewalk improvements.

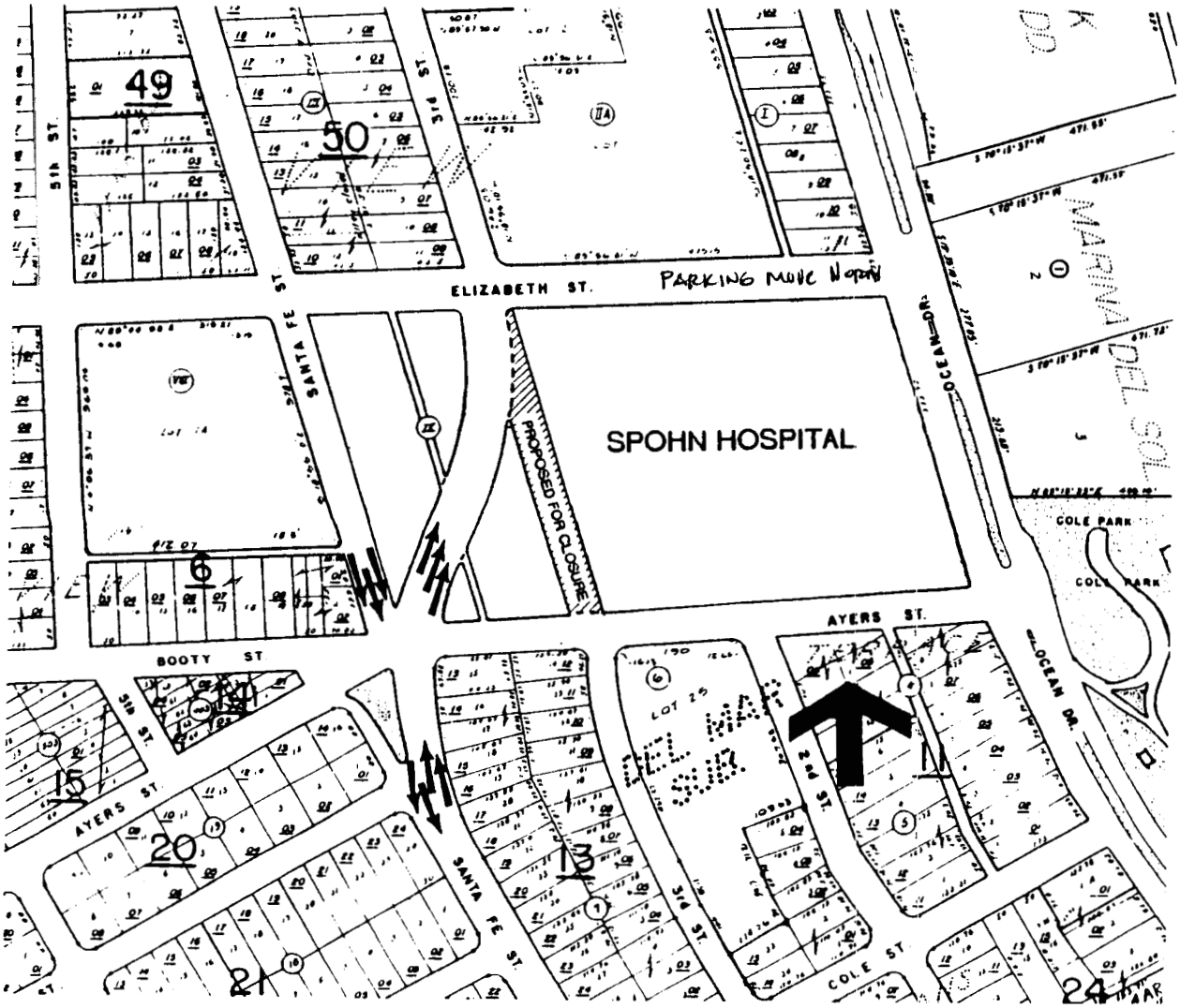
37) Aransas Cliffs Area Streets - curb/gutter/sidewalk improvements.

38) Daly/Clare Area Streets - curb/gutter/sidewalk improvements.

39) Kentner Street - Clairmore to Glenmore - curb/gutter/sidewalk improvements.

40) Edgewater Terrace Area Streets - curb/gutter/sidewalk improvements.

FIGURE 10 REALIGNMENT OF THIRD STREET WITH SANTA FE STREET



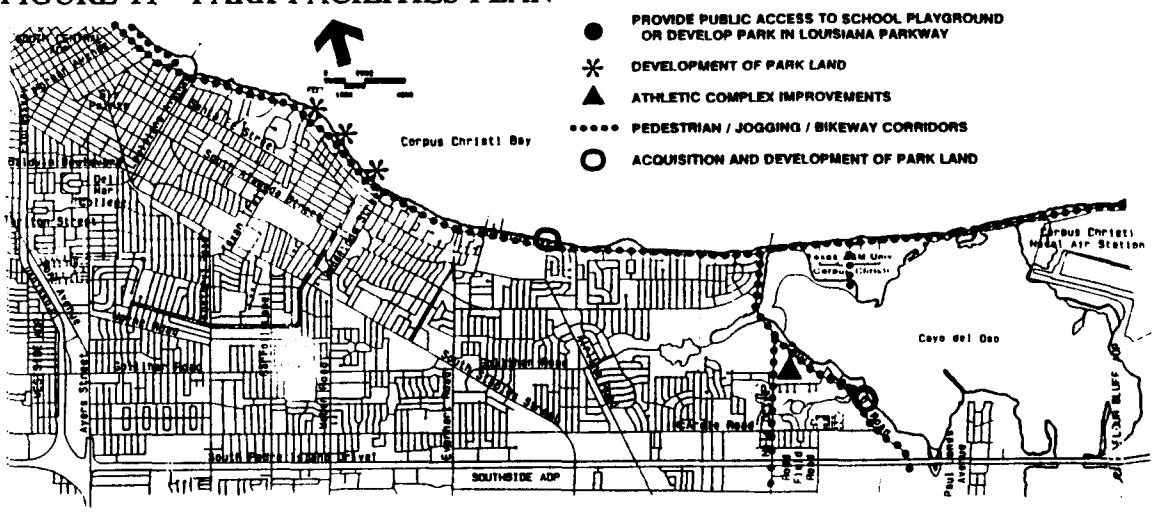
D. PUBLIC UTILITIES AND SERVICES

PARKS AND RECREATION

POLICY STATEMENT D.1

The City Council adopts this Parks Facilities Plan as a guide for future Southeast Area park improvements. (See Figure 11)

FIGURE 11 PARK FACILITIES PLAN



POLICY STATEMENT D.2

CAPITAL IMPROVEMENT NEED

Adequate funds for the following prioritized improvements should be included in future capital improvement programs:

- **a. Public access to Menger Elementary playground should be pursued with CCISD. If access cannot be provided, the City should develop a neighborhood park within Louisiana Parkway between Alameda and Santa Fe Streets;**

- **b. Renovate existing parks;**

- **c. Develop the Bay Trail pedestrian/bikeway. Note, the Traffic Engineering Division, Park and Recreation Department, and the Planning and Development Department are formulating a comprehensive areawide bikeway plan.**

- **d. Use of private and governmental facilities for more efficient service delivery of both recreational and senior community services;**

- **e. Improve drainage, parking, concession and restroom facilities, lighting, fencing and other needed improvements for the athletic complexes at Price, Botsford and South Guth Parks; and**

- **f. Purchase and develop bayfront view vista points at the:**

  1) Intersection of Ocean Drive and Airline Road; and

  2) Outfall area of the Pharaoh Country Club drainageway.

POLICY STATEMENT D.3

As redevelopment occurs in the Southeast area the park system should be evaluated (at least every five years) to figure out the need for existing parks. Where residential areas have been redeveloped for commercial uses, existing parks should be considered for designation as surplus property and sold. Where feasible, the proceeds from sale of surplus park land (referendum required) should be set aside for improvements to those parks most likely to serve nearest residential neighborhoods.

POLICY STATEMENT D.4

The City should continue to encourage park land purchase, donation and dedication along the Corpus Christi Bay and the Cayo Del Oso.

SENIOR COMMUNITY SERVICES

POLICY STATEMENT D.5

Additional senior community services should utilize expansion of existing recreational centers and senior community facilities, and possibly existing religious, educational and commercial facilities. This will provide senior services more effectively, allowing for maximum flexibility as recreation needs change while reducing the need for costly new structures.

WATER AND WASTEWATER SYSTEMS

POLICY STATEMENT D.6

Conduct critical analysis and needs assessment of the water distribution and wastewater collection systems. One of the most critical service issues facing the Southeast area is the failure rate of the ageing water and wastewater distribution and collection systems. This assessment should include a long-range improvement program which addresses replacement needs of deteriorating infrastructure. This assessment should also take into account projected long-range uses according to the proposed Land Use and Development Plan. These studies will help to prioritize and target capital improvements and assure replacement and, where necessary, upgrades to the existing water/wastewater systems.

POLICY
STATEMENT
D.7
CAPITAL IMPROVEMENT NEED
Provide increased water supply and wastewater collection capacity to Texas A&M University-Corpus Christi to meet the anticipated needs of the University's programmed expansion. For planning purposes these improvements should, at a minimum, provide sufficient capacity to accommodate growth for a full-time equivalent student population of 3,000 for 1994, 4,500 for 2000, and 9,000 for 2010. These improvements should be coordinated with planned improvements to the roadway of Ocean Drive, and proposed expansion of gas, wastewater, electrical, telephone, and cable services.

STORMWATER SYSTEM

POLICY
STATEMENT
D.8
Amend the Master Stormwater Drainage Plan for the Southeast Area as well as the rest of the City to comply with the U.S. Water Quality Act of 1987. The City's Engineering Services Department should initiate a study to amend the Master Stormwater Drainage Plan and any other affected plans such as the Urban Transportation Plan, etc., to comply with this Act.

NATURAL GAS SYSTEM

POLICY
STATEMENT
D.9
Continue the present policy to provide service as development occurs, including providing expanded service to Texas A&M University-Corpus Christi.

COMMUNITY DEVELOPMENT SERVICES

POLICY
STATEMENT
D.10
City housing rehabilitation programs should only be used in areas where residential land use is recommended and where residential zoning exists.

POLICY
STATEMENT
D.11
Community Development should target code enforcement and rehabilitation programs for those areas with the most severe housing, commercial, sanitation, brush pick-up, and animal control problems. Areas 1, 2, and 3 (see Figure 12) are characterized by a wide range of housing conditions. It is important that the city actively promote code enforcement and rehabilitation programs to prevent further deterioration of property and to help prevent the spread of such deterioration to adjacent neighborhoods to the east. Furthermore, to assist in conserving the

neighborhoods the City should, when funds area available, improve substandard neighborhood streets without requiring property owner assessments.

The commercial areas in Area 4, along SPID, are also targeted as this is one of the most visible and highly traveled corridors in the City. Code compliance and overall community appearance from SPID along this corridor is especially important since it is the only route through the city to the barrier island visitor areas.

As part of the periodic comprehensive plan review procedure, the City should reevaluate the target areas and establish whether these areas should continue to be targeted, re-prioritized, or if other areas should be included in the program.

FIGURE 12 CODE ENFORCEMENT TARGET AREAS

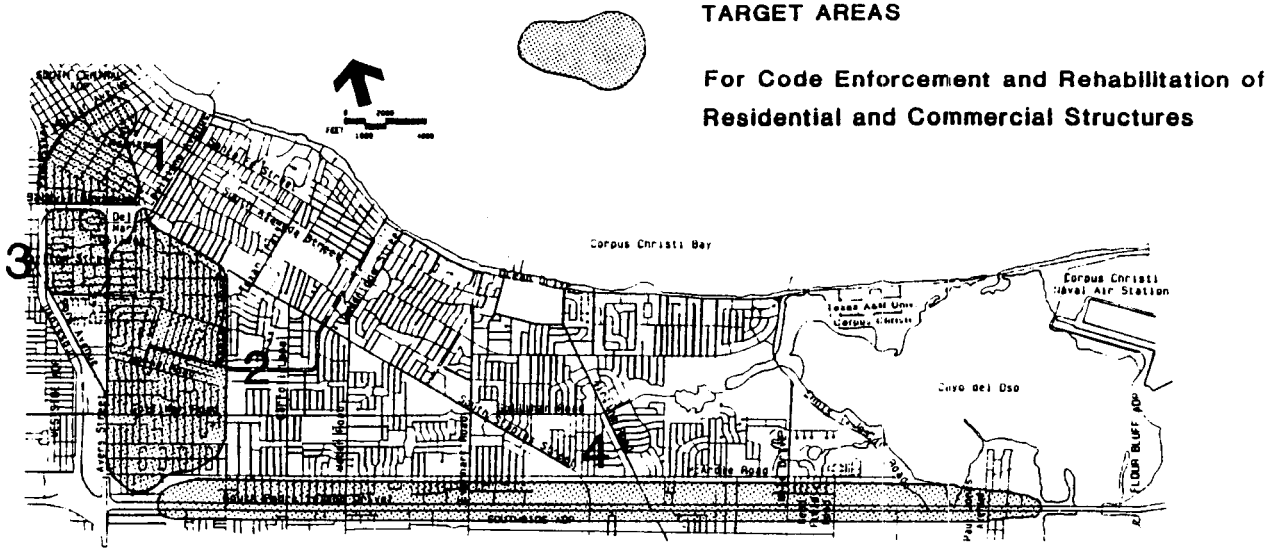
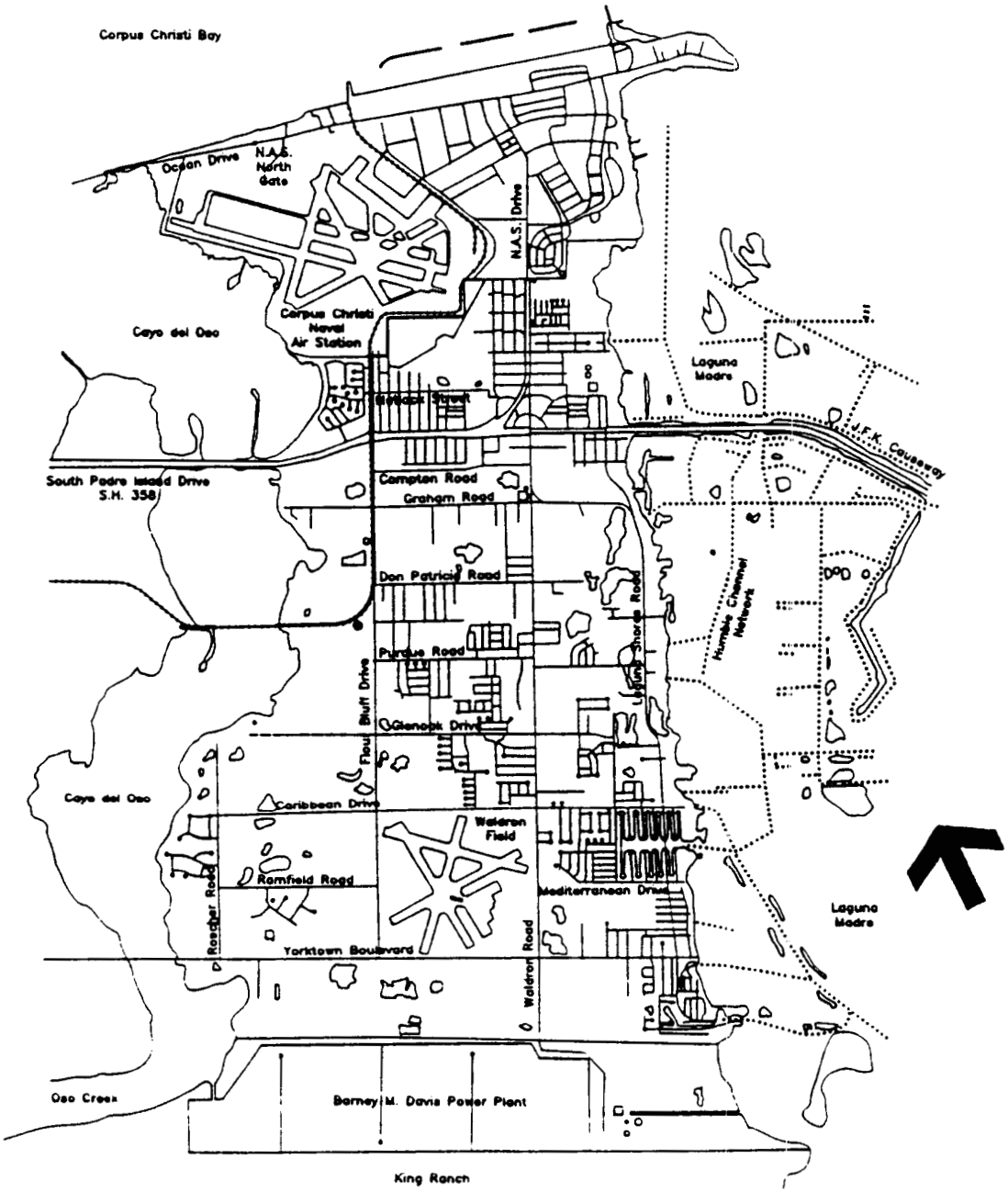


FIGURE 1 *FLOUR BLUFF AREA*



FLOUR BLUFF AREA DEVELOPMENT PLAN

INTRODUCTION

The Comprehensive Plan is mandated by the City Charter. It requires the City Council to *"...establish comprehensive planning as a continuous governmental function in order to guide, regulate, and manage future development..."* and, that *"all city improvements, ordinances, and regulations shall be consistent with the comprehensive plan."*

The Comprehensive Plan is a product of various plan titles such as Policy Statements, Area Development Plans, Capital Improvement Programs, and Master Utility Plans. The comprehensive planning process is a means for citizens and community leaders to guide community development. The Comprehensive Plan, by definition, is *general, long range, and broad in scope.* To help form the Comprehensive Plan, City Council divided the city and its environs into 13 Area Development Plan (ADP) study areas.

Development plans for these areas help resolve basic land use issues such as zoning and platting of properties, allocation of public services and facilities contained in the Capital Improvement Programs, and other area specific issues. In many cases, follow-up programs are needed to implement the many policies in the Plan. Implementation of these plans will help assure the most appropriate land development and provision of public services.

Coordination of the Capital Improvement Plan, various Area Development Plans, and day-to-day actions of line agencies responsible for implementing the Comprehensive Plan, will result in more cost effective development and tax dollar savings.

The Flour Bluff Development Plan Area (Figure 1 - Flour Bluff Area) is bounded by the Cayo del Oso on the west, Corpus Christi Bay on the north, Laguna Madre on the east, and the King Ranch on the south. On the north end of the peninsula is the Naval Air Station (NAS) and Corpus Christi Army Depot (CCAD) which are landmarks for the area. The Barney Davis power plant and cooling reservoirs are located next to the King Ranch at the southern end of the study area. In addition Flour Bluff is characterized by a natural abundance woodlands and brushlands, wetlands, and existing large lot development. When adopted this plan will supersede the 1982 Flour Bluff plan.

This plan is similar to the 1982 Flour Bluff Plan as both plans place a high priority on striking a balance between the desires of private property owners and achieving long term community goals, and objectives. Perhaps foremost among these compromises is to accommodate continued operation of the Naval Air Station while leaving reasonable development choices for the private property owner. This plan stresses the need to gradually move toward land uses which meet the Navy's guidelines for uses adjacent to it's airfields. A significant difference between this plan and previous plans is the more comprehensive scope and the greater detail provided in many of the recommendations, concerning parks, branch libraries, the road system etc.

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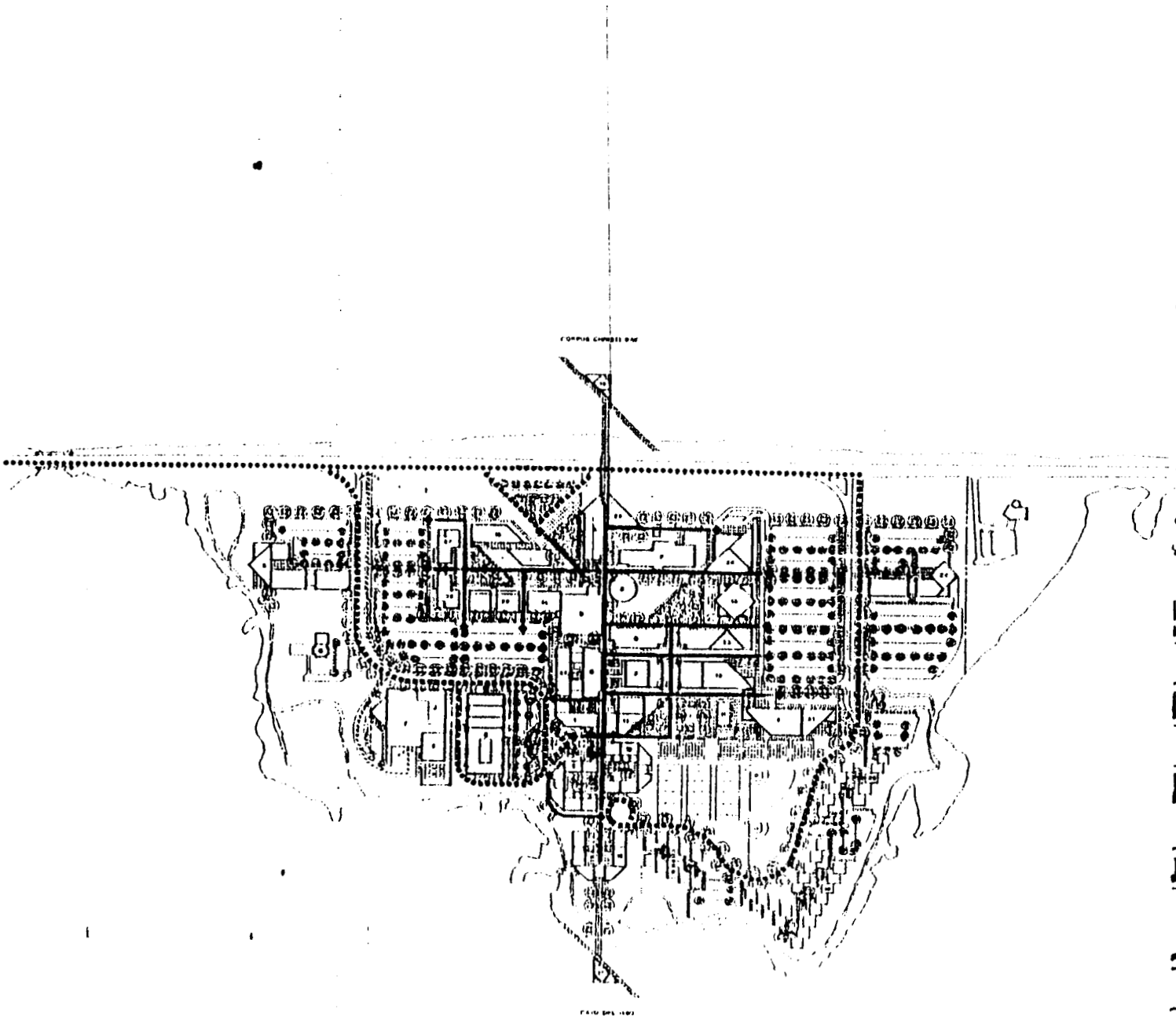
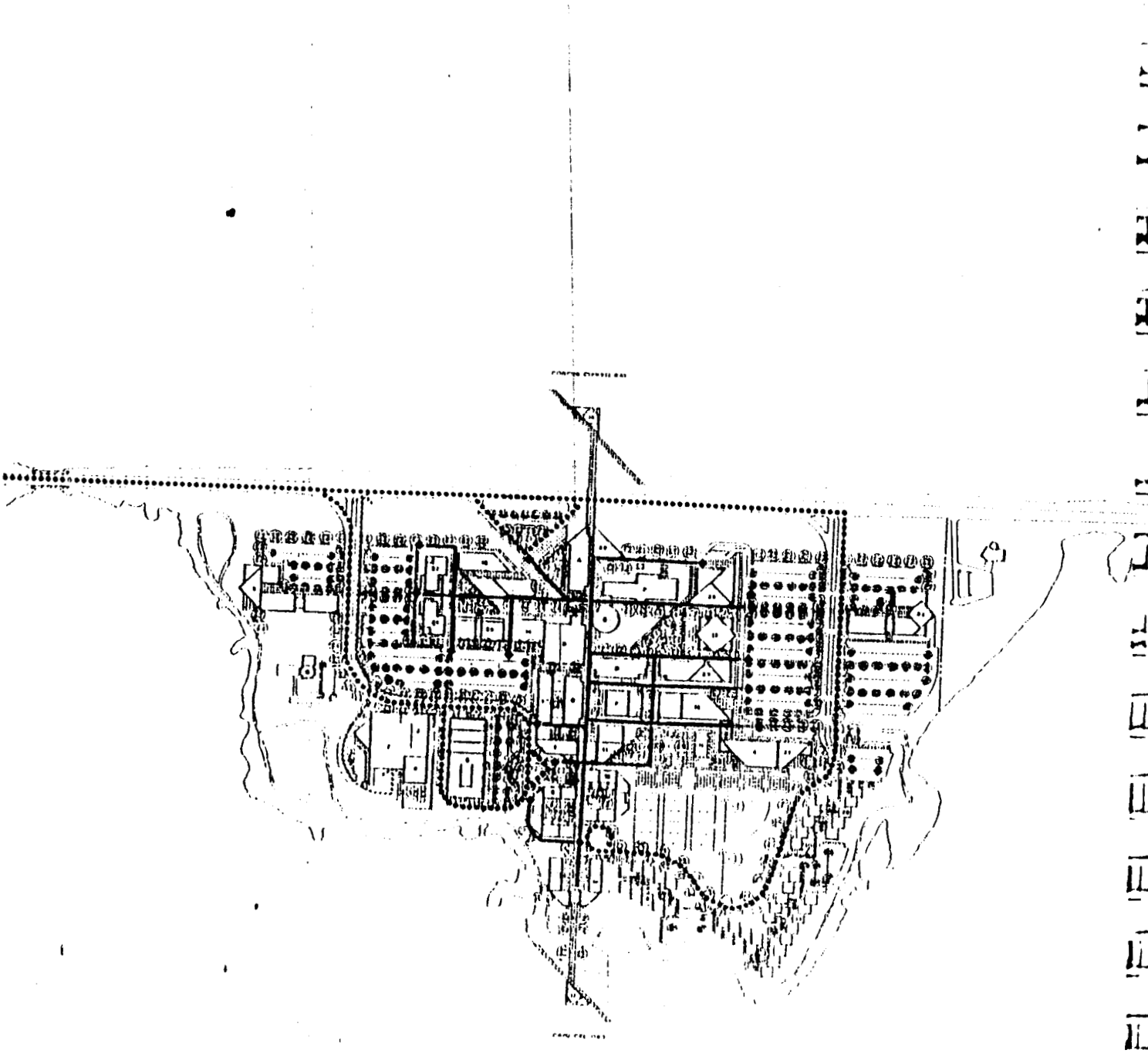


Legend

- Existing 12.0 KV Main Feeder
- Existing 12.0 KV Branch Feeder
- New 12.0 KV Main Feeder
- New 12.0 KV Branch Feeder
- Existing Switching Station
- New Switching Station
- Existing Transfer
- New Transformer
- Power Metering KWHM



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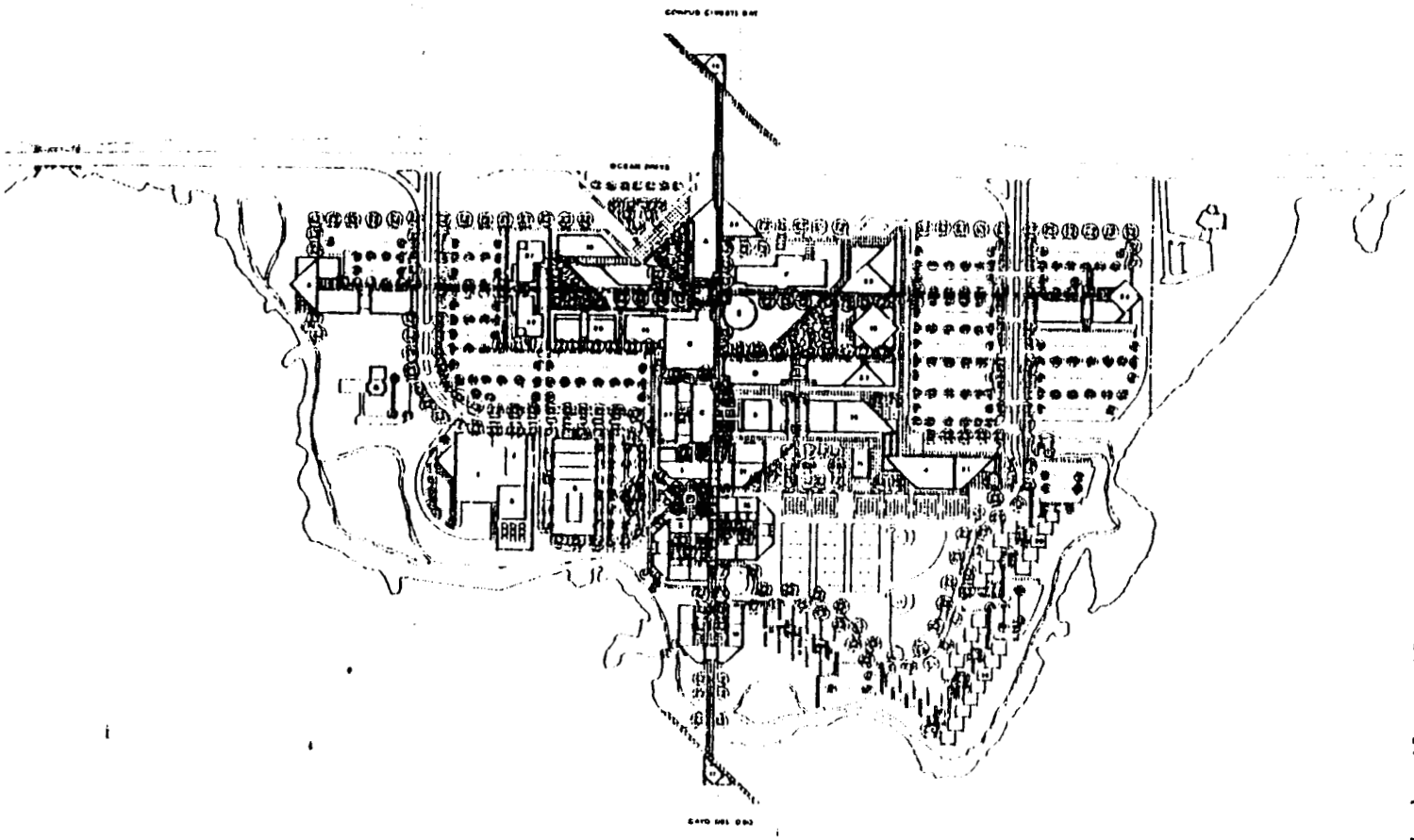

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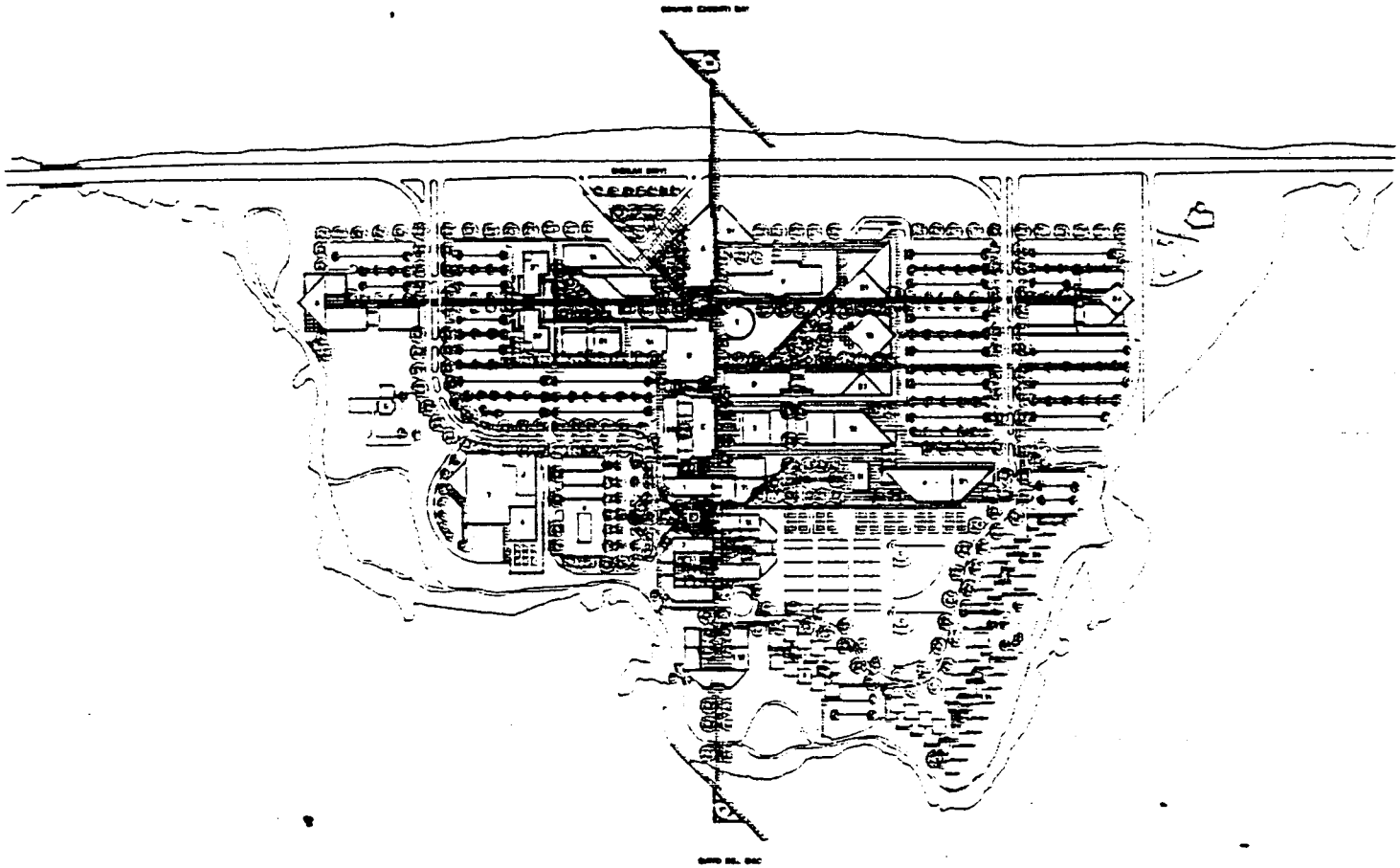
Pedestrian Zone



Legend

Pedestrian Zone

SOUTHEAST AREA DEVELOPMENT PLAN

INTRODUCTION

The Comprehensive Plan is mandated by the City Charter. It requires the City Council to "...establish comprehensive planning as a continuous governmental function in order to guide, regulate, and manage future development..." and, "all city improvements, ordinances, and regulations shall be consistent with the comprehensive plan."

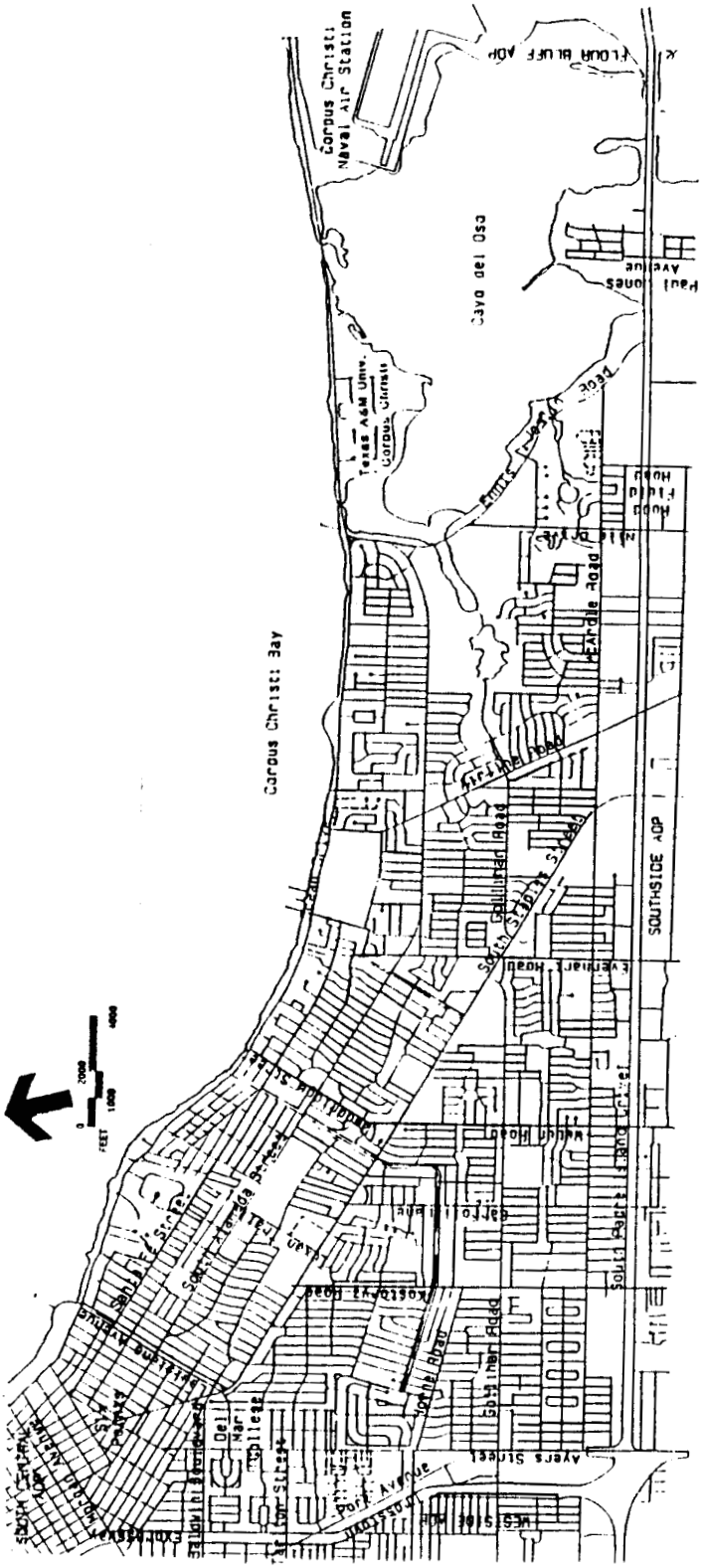
The Comprehensive Plan is a product of various documents such as Policy Statements, Area Development Plans, Capital Improvement Programs, and Master Utility Plans. The comprehensive planning process is a means whereby citizens and community leaders guide community development. The Comprehensive Plan, by definition, is general, long range, and broad in scope. To help formulate the Comprehensive Plan, City Council divided the city and its environs into 13 Area Development Plan (ADP) study areas.

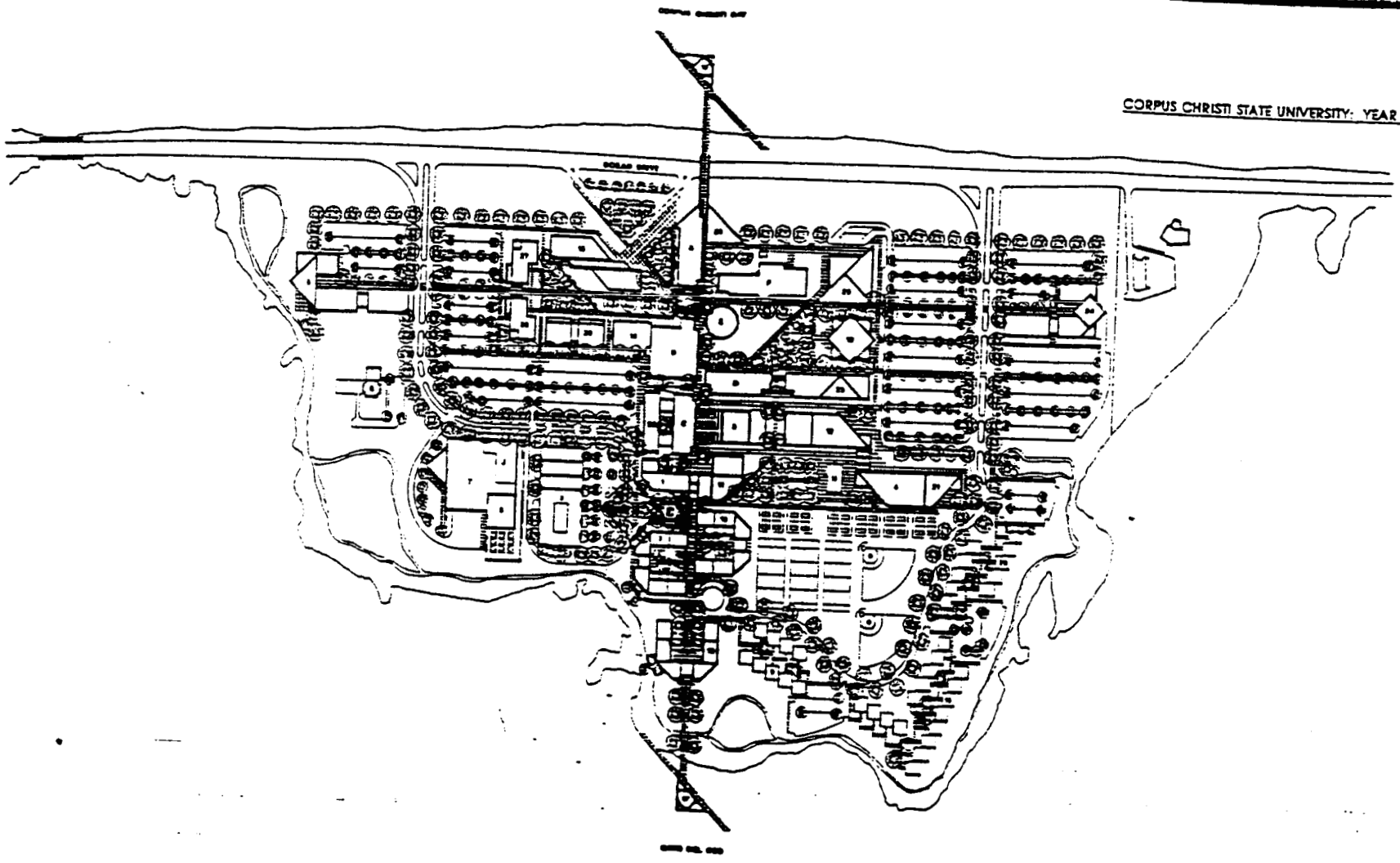
Development plans for these areas will help provide direction in resolving basic land use issues such as zoning, platting of properties, allocation of public services and facilities, and other area specific issues. In many cases, follow-up programs are needed to implement Plan policies. Implementation of these plans assures the most appropriate land development and provision of public services. Coordination of the Capital Improvement Plan, other elements of the Comprehensive Plan and day-to-day actions of line agencies responsible for implementing the Comprehensive Plan, result in more cost effective development and tax dollar savings.

The Southeast Development Plan (SEADP) Area, is bounded on the north by Morgan Street; on the east by Corpus Christi Bay and the Cayo Del Oso; on the south by South Padre Island Drive (SPID); and on the west by the Crosstown Expressway. Points of interest within the Plan area include the Six Points/Spohn Hospital area in the northern section of the Plan area and the shopping malls along SPID. In addition the Plan area is characterized by the City's largest concentration of residential neighborhoods (see Figure 1).

Plan formulation included development of technical papers for the area which describe existing conditions and background information. These papers are available from the Planning Department.

FIGURE 1 SOUTHEAST STUDY AREA





Proposed Campus Plan

FLOUR BLUFF AREA DEVELOPMENT PLAN

An Element of the Comprehensive Plan

The City Planning Commission conducted 10 public meetings, including 4 public hearings, between December 1992 and July 1993 regarding the draft Flour Bluff Area Development Plan. The four public hearings were conducted on January 20th, January 27th, February 24th and March 10th, 1993. The Plan was recommended by the City Planning Commission on July 14, 1993, for City Council adoption. On August 31, 1993, after conducting a public hearing and on 2nd reading, the City Council adopted the Flour Bluff Area Development Plan.

Preparation of this document was financed in part by a Community Development Block Grant from the Department of Housing and Urban Development and a Metropolitan Planning Organization Grant from the Federal Highway Administration.

City of Corpus Christi
Department of Planning and Development

CAET N-4453
HEARD
AVA

ATTACHMENT 4
(REPLACEMENT)
6 MAY 94

AN ORDINANCE

ADOPTING THE FLOUR BLUFF AREA DEVELOPMENT PLAN AS AN ELEMENT OF THE CITY OF CORPUS CHRISTI COMPREHENSIVE PLAN; AND ESTABLISHING THE CITY OF CORPUS CHRISTI'S, DEVELOPMENT OBJECTIVES, POLICIES, AND PROGRAMS FOR THE FLOUR BLUFF AREA.

WHEREAS, the Planning Commission has forwarded to the City Council its report and recommendations concerning adopting the Flour Bluff Area Development Plan as an element of the City of Corpus Christi Comprehensive Plan;

WHEREAS, in accordance with proper notice to the public, a public hearing was held on Wednesday, March 10, 1993, during a meeting of the Planning Commission and on Tuesday, August 31, 1993, during a meeting of the City Council, in the Council Chambers at City Hall in the City of Corpus Christi allowing all interested persons to appear and be heard; and

WHEREAS, the City Council has determined that the hereinafter set forth adoption would best serve public health, necessity and convenience and the general welfare of the City of Corpus Christi and its citizens.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CORPUS CHRISTI, TEXAS:

SECTION 1. That the Comprehensive Plan of the City of Corpus Christi, Texas, is amended by making the change hereinafter set out.

SECTION 2. That there is hereby approved and adopted as a portion of the Comprehensive Plan for the City of Corpus Christi the Flour Bluff Area Development Plan, substantial copy of which is attached hereto and made a part hereof for all purposes, marked Exhibit A.

SECTION 3. That the Flour Bluff Area Development Plan hereby establishes the City of Corpus Christi's policies for growth, development, and aesthetics for the area described by said plan, a portion of the master and general plan of the City.

SECTION 4. That all ordinances or parts of ordinances in conflict herewith are hereby expressly repealed.

SECTION 5. If for any reason any section, paragraph, subdivision, clause, phrase, word or provision of this ordinance shall be held invalid or unconstitutional by final judgment of clause, phrase, word or provision of this ordinance for it is the definite intent of this City Council that every section, paragraph, subdivision, clause, phrase, word or

provision hereof be given full force and effect for its purpose.

SECTION 6. Publication shall be made one time in the official publication of the City of Corpus Christi by publishing the caption stating in substance the purpose of the ordinance, this ordinance to become effective upon such publication.

To: Code 00/01

Subj: **BRAC-95 DATA CALL #** 3 (replacement attachment 4)

CERTIFICATION FOR: NAS CORPUS CHRISTI

1. I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NAME (PLEASE TYPE OR PRINT): Angela Heard	SIGNATURE: A. Heard
TITLE: BRAC/MILCON ANALYST	DATE: 6 May 94
DIVISION: N-44	PARAGRAPH(S)/SECTION(S)/PAGE(S) CERTIFIED: Replacement ATTACH (4). (ORIGINAL HAD ODD # PAGES ONLY)
ACTIVITY: CNET	

NAME (PLEASE TYPE OR PRINT)	SIGNATURE
TITLE	DATE
DIVISION	PARAGRAPH(S)/SECTION(S)/PAGE(S) CERTIFIED
ACTIVITY	

NAME (PLEASE TYPE OR PRINT)	SIGNATURE
TITLE	DATE
DIVISION	PARAGRAPH(S)/SECTION(S)/PAGE(S) CERTIFIED
ACTIVITY	

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

R. K. U. KIHUNE
NAME

Signature

CNET
Title

6 May 94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. GREENE, JR
NAME

J B Greene Jr.
Signature

ACTING
Title

17 MAY 1994
Date

This certification for UIC 00216 BRAC-95, Data call THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

26 APR 94
Date

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

W. B. HAYDEN, RADM, USN
NAME (Please type or print)

Signature

Chief of Naval Air Training
Title

29 APR 94
Date

Naval Air Training Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

T. L. McCLELLAND
NAME

Signature

Acting
Title

5/2/94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. GREENE JR
NAME (Please type or print)

Signature

ACTING
Title

13 MAY 1994
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, Data call THREE

K. G. BIXLER, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

Date 4/26/94

Naval Air Station, Corpus Christi
Activity

Revision pg 25

Command: **NAS CORPUS CHRISTI**

Data Call Number Three Amendment One Revisions
(Page 25)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

R. K. U. KIHUNE
NAME

Signature

CNET
Title

6 JUN 1994
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. GREENE JR
NAME

Signature

ACTING
Title

6/8/94
Date

Revision pg 25

BRAC-95 DATA CALL 3
NAS CORPUS CHRISTI UIC 00216

CNATRA REVISIONS 5/18/94, PAGE 25

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

W. B. HAYDEN, RADM, USN
NAME (Please type or print)

Signature

Chief of Naval Air Training
Title

Date 2 June 94

Naval Air Training Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, pages ~~76~~ 67 thru ~~81~~ 72 for Data call THREE

K. G. BIXLER, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

Date 6/8/94

Naval Air Station, Corpus Christi
Activity

BRAC-95 DATA CALL 3
NAS CORPUS CHRISTI UIC 00216

STATION REVISIONS OF 6/8/94
This certification for UIC 00216 BRAC-95, pages ~~76~~ 67 thru ~~81~~ 72 for Data call THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

Date 08 JUN 94

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING (ACTING)
Title

Date 10JUN94

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

Command: **NAS CORPUS CHRISTI**

Data Call Number Three Amendment One Revisions
(Pages ~~76~~ 67 thru ~~81~~ 72)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

R. K. U. KIHUNE
NAME

Signature

15 JUN 1994
Date

CNET
Title

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

R. R. SAREERAM
NAME

Signature

27 JUN 1994
Date

Acting
Title

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One Revisions
(Pages ~~76-81~~)
67-72

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

T. L. McCLELLAND
NAME

Signature

Acting
Title

7/20/94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

8/3/94
Date

Activity

STATION REVISIONS OF 7/12/94 (IRT CNET PENSACOLA 241800Z JUN 94)

Pg ~~76-81~~ 67-72

This certification for NAS Corpus Christi UIC 00216 BRAC-95, for replacement pages 76, 77, 78, 79, 80 and 81 for Data call THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

COMMANDER
Title

Training Air Wing FOUR
Activity

Signature

13JUL94
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
NAME (Please type or print)

CHIEF OF NAVAL AIR TRAINING (ACTING)
Title

NAVAL AIR TRAINING COMMAND
Activity

Signature

15JUL94
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Title

Activity

Signature

Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Title

Signature

Date

Revisions
Pg ~~76-81~~
67-72

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, for replacement pages 76, 77, 78, 79, 80 and 81 for Data call THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Frank Montesano
Signature

COMMANDING OFFICER
Title

7-13-94
Date

Naval Air Station, Corpus Christi
Activity

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One
CNET Generated Revisions (Pages 67-72)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

P. E. TOBIN
NAME

Signature

Acting
Title

26 AUG 1994
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME

Signature

Title

9/1/94
Date

Encl (2)

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One Revisions
(Pages 23a-23i, 50, 63, and 63a)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

P. E. TOBIN
NAME

PETobin
Signature

Acting
Title

07 SEP 1994
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME

WAEarner
Signature

Title

9/12/94
Date

(STATION REVISIONS OF 7/29/94)

This certification for NAS Corpus Christi UIC 00216 BRAC-95, additional pages 24a through 24i and replacement pages 50, 63 and 63a for Data call THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

Date 01AUG94

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

W. B. HAYDEN, RADM, USN
NAME (Please type or print)

Signature

Chief of Naval Air Training
Title

Date 9AUG 94

Naval Air Training Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

Ex 1

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, additional pages 24a through 24i and replacement pages 50, 63 and 63a for Data call THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

7-29-94
Date

Naval Air Station, Corpus Christi
Activity

Encl 1

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One Revision
(Page 32)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

P. E. TOBIN
NAME

PEH
Signature

Acting
Title

23AUG94
Date

CNET
Activity

This certification for NAS Corpus Christi UIC 00216 BRAC-95, replacement page 32 for Data Call THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

11 AUG 94
Date

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING (ACTING)
Title

15 Aug 94
Date

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

8/29/94
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, replacement page 32 for Data Call THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

10 AUG 96
Date

Naval Air Station, Corpus Christi
Activity

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One Revisions
(Pages 1, 3, 14, 15, 19, 20, 22, 24, 32, 34, 35, 45, 75, and 83)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

J. D. ANDERSON
NAME

Signature

Acting
Title

9/30/94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

P.W. DRENNON
NAME

Signature

Acting
Title

12 OCT 1994
Date

This certification for NAS Corpus Christi UIC 00216 BRAC-95, replacement pages 1, 3, 14, 15, 19, 20, 22, 24, 32, 34, 35, 45, 75 and 83 for Data Call THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

Date 9/2/94

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

W.B. HAYDEN, RADM
NAME (Please type or print)

Signature

Chief of Naval Air Training
Title

Date 13 SEP 94

Naval Air Training Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, replacement pages 1, 3, 14, 15, 19, 20, 22, 24, 32, 34, 35, 45, 75 and 83 For Data Call THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

9-2-94
Date

Naval Air Station, Corpus Christi
Activity

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One Revisions
(Pages 50, 52, 53, 56, 73, 84, and 85)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

J. D. ANDERSON
NAME

Signature

Acting
Title

9/27/94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

P.W. DRENNON
NAME

Signature

Acting
Title

12 OCT 1994
Date

Encl (1)

BRAC 95 DATA CALL 3
NAS CORPUS CHRISTI UIC 00216
REV 9/15/94 PGS 50,52,53,56,73,84,85

This certification for NAS Corpus Christi UIC 00216 BRAC-95, replacement pages 50, 52, 53, 56, 73, 84 and 85 for Data Call THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

15 SEP 94
Date

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
~~W. B. HAYDEN, RADM, USN~~
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING(ACTING)
Title

22 Sept 94
Date

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, replacement pages 50, 52, 53, 56, 73, 84 and 85 for Data Call THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Frank Montesano
Signature

COMMANDING OFFICER
Title

15 Sep 94
Date

Naval Air Station, Corpus Christi
Activity

Encl (2)

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One Revision
(Page 57)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

J. D. ANDERSON
NAME

Signature

Acting
Title

10/4/94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

P.W. DRENNON
NAME

Signature

Acting
Title

12 OCT 1994
Date

225

Command: **NAS Corpus Christi**

Data Call Number Three Amendment One Revision
(Page 53)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

T. W. WRIGHT
NAME

T W Wright
Signature

CNET
Title

4 NOV 94
Date

CNET
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME

W A Earner
Signature

Title

11/15/94
Date

This certification for NAS Corpus Christi UIC 00216 BRAC-95, replacement page 53 for Data Call THREE

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

Date 31 OCT 94

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

W. B. HAYDEN, RADM, USN
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING
Title

Date 1 Nov 94

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, replacement page 53 for Data Call THREE

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Frank Montesano
Signature

COMMANDING OFFICER
Title

28 OCT 94
Date

Naval Air Station, Corpus Christi
Activity

Command: **NAS Corpus Christi**

Data Call Number Twenty Revision
(Page 78)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

T. W. WRIGHT	
NAME	Signature
CNET	14 Nov 94
Title	Date
CNET	
Activity	

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER	
NAME	Signature
	12/12/94
Title	Date

R

This certification for NAS Corpus Christi UIC 00216 BRAC-95, replacement page 78 for Data Call TWENTY

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. J. GROSEL, CAPT, USN
NAME (Please type or print)

Signature

COMMANDER
Title

09NOV94
Date

Training Air Wing FOUR
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

P. R. STATSKEY, CAPT, USN
NAME (Please type or print)

Signature

CHIEF OF NAVAL AIR TRAINING (ACTING)
Title

9 NOV 94
Date

NAVAL AIR TRAINING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

This certification for UIC 00216 BRAC-95, replacement page 78 for Data Call TWENTY

F. W. MONTESANO, CAPT, USN
NAME (Please type or print)

Frank Montesano
Signature

COMMANDING OFFICER
Title

8 NOV 99
Date

Naval Air Station, Corpus Christi
Activity