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BRIDGE CROSS

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THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (UNLESS OTHERWISE NOTED), DATED JANUARY, 1991.

REVISIONS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED STATE HIGHWAY

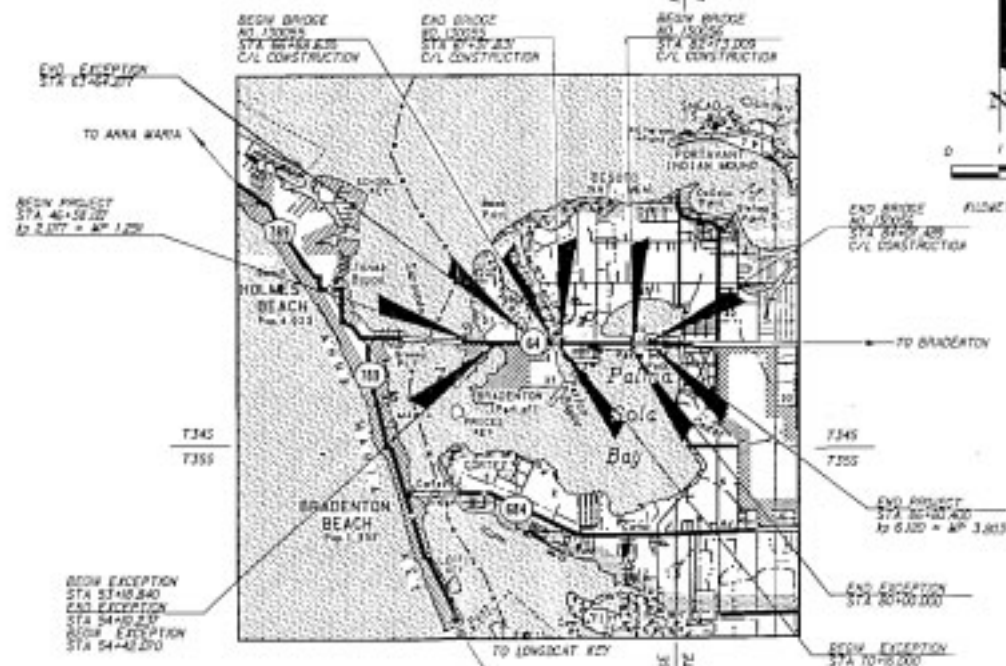
FINANCIAL PROJECT NO. 196115-1-52-01
STATE PROJECT NO. 13150-3530
(FEDERAL FUNDS)

MANATEE COUNTY

STATE ROAD NO. 64

90% SUBMITTAL
(OCTOBER 1998)

LOCATION OF PROJECT



LENGTH OF PROJECT

	METERS
ROADWAY	2840.263
BRIDGES	183.275
NET LENGTH OF PROJ.	3023.538
EXCEPTIONS	199.204
GROSS LENGTH OF PROJ.	3222.742

FOOT PROJECT MANAGER: MARIA D. FORVASSO, P.E.

NOTE: THIS IS A METRIC UNIT PROJECT

REVISIONS	
NO.	DESCRIPTION

STRUCTURE PLANS

BRIDGE NO. 10000

DATE:

P.E. NO.:

PLANS PREPARED BY
MICHAEL BAKER, JR., INC.
CONSULTING ENGINEERS
NEW & WESTSHORE BLVD SUITE 602
TAMPA, FL 33607
DAYS 800-754-2222
HOURS 813-288-1111

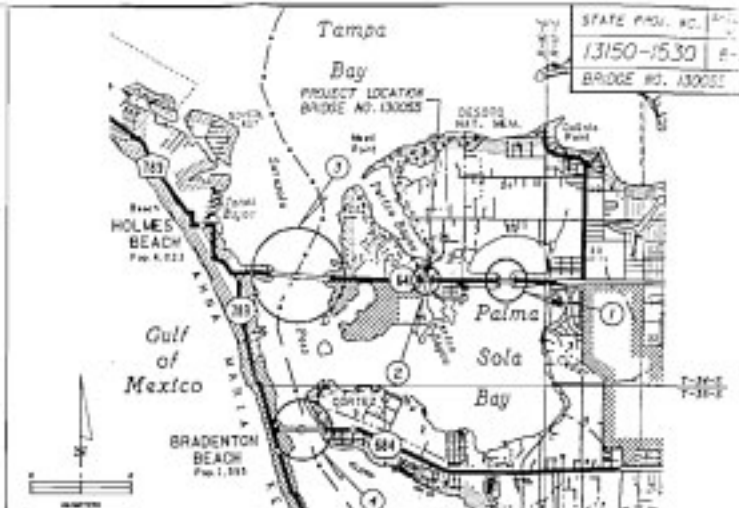
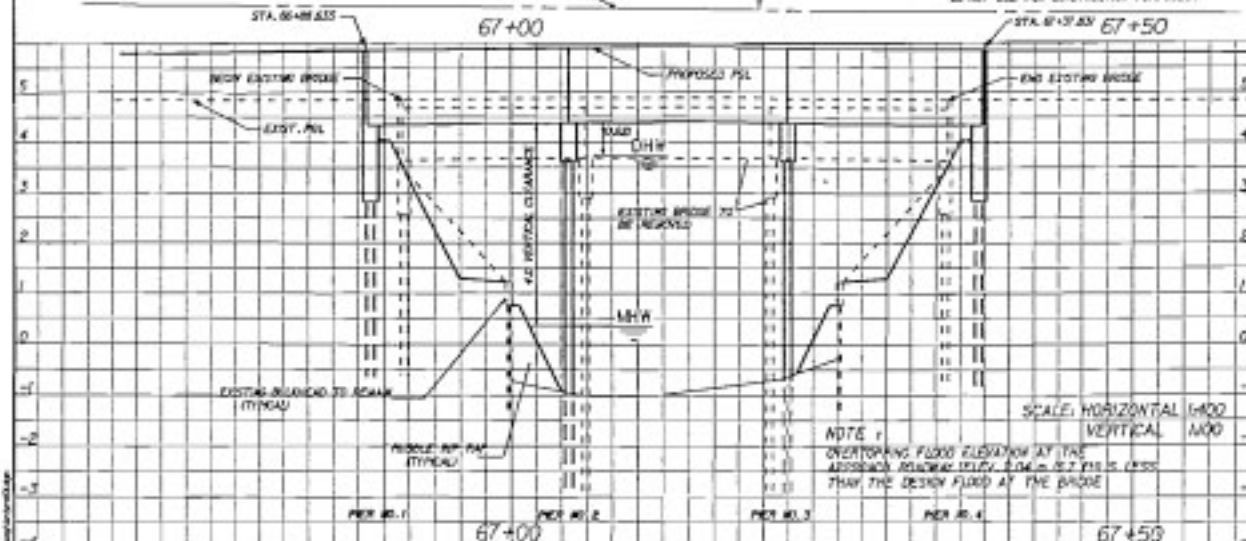
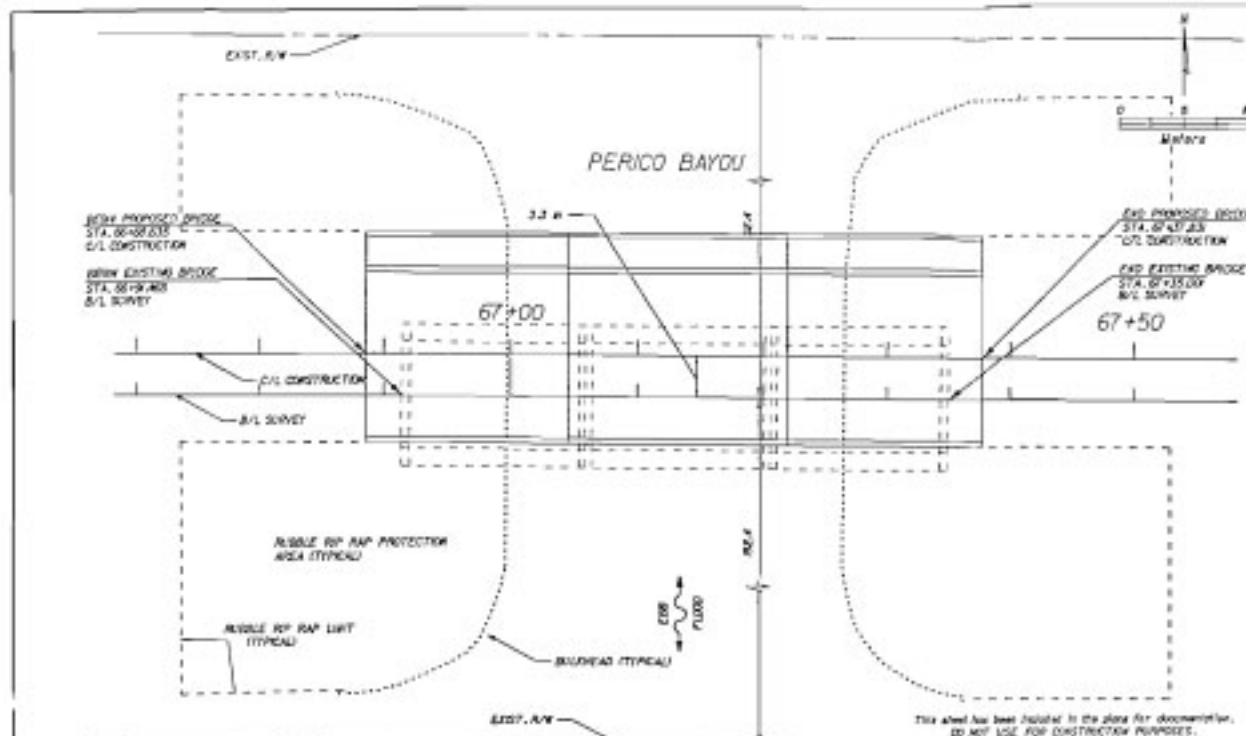
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS HAVE BEEN ALTERED IN SIZE OF REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

CONFORMING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1996, SUPPLEMENTS AND SPECIAL PROVISIONS THEREIN IF NOTED IN THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.



☐ PROPOSED FILE
 EXISTING FILE (TO BE REMOVED)
 EXISTING FILE WITH BUTTER (TO BE REMOVED)
 ① DENOTES FILE NUMBER
 PROPOSED TEST FILE

[illegible]



REFERENCE	EXISTING STRUCTURES	PROPOSED STRUCTURE
FOUNDATION	12.1	12.1
OVERALL LENGTH	12.1	12.1
SPAN LENGTH	12.1	12.1
TYPE CONSTRUCTION	12.1	12.1
AREA OF OPENING & D.F.	12.1	12.1
BRIDGE WIDTH	12.1	12.1
ELEV. LOW WATER	12.1	12.1

HYDRAULIC DESIGN DATA

NOTE: The hydraulic data is shown for informational purposes only to indicate the flood discharge and water surface elevations which may be anticipated in any given year. This data was generated using design factors determined by a study of the waterways. Water judgments and recommendations are required to establish these factors. The resulting hydraulic data is sensitive to changes, particularly upstream conditions, obstructions, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be attained.

DEFINITIONS: Design Flood: The flood which is to be used as a basis for hydraulic engineering.
Base Flood: The flood having a 1% chance of being equaled or exceeded in any given year 100 year frequency over-flooding flood. The flood which occurs from the high water, over a watershed divide, or from emergency relief structures.
Breacher Flood: The most severe flood which can be anticipated where overtopping is not prohibited.

WATER SURFACE ELEVATIONS M.W.M. (FEET)		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
CONTROL (FEET)		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
MAX. EVENT OF RECORD		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
STAGE ELEV. (FEET)		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
DESIGNER (FEET)		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
AVERAGE VELOCITY (FEET)		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
EXCEEDANCE PROB. (%)		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
FREQUENCY (FEET)		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
SOIL PROPERTIES		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
FREQUENCY (FEET)		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
PER SIZE AND TYPE		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
PER SIZE AND TYPE		DESIGN FLOOD	BASE FLOOD	IF AN FLOOD WERE TO OVERTOPPING FLOOD
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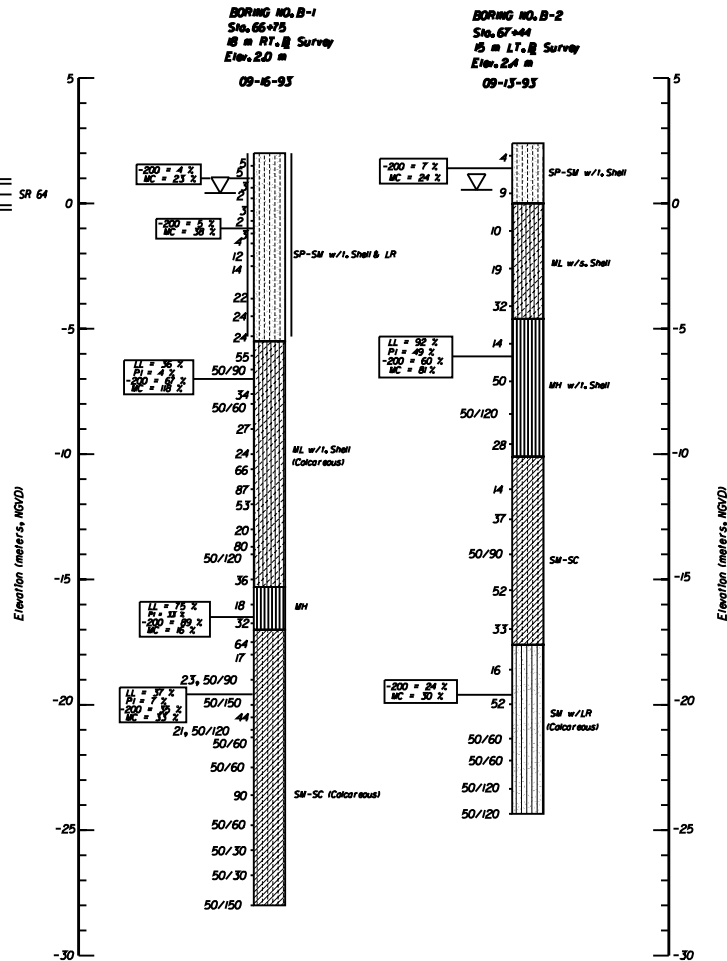
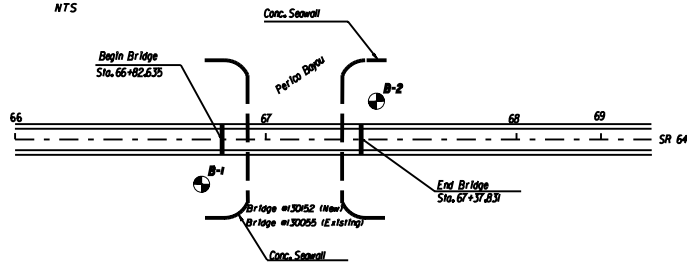
ADDITIONAL RECOMMENDATIONS			
1. DESIGN BRIDGE STATION	REMARKS	END BRIDGE STATION	REMARKS
2. CLEARANCE PROVIDED (FEET) ABOVE	REMARKS	END BRIDGE STATION	REMARKS
3. MINIMUM CLEARANCE (FEET) ABOVE	REMARKS	END BRIDGE STATION	REMARKS
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100. DESIGN BRIDGE	REMARKS	END BRIDGE STATION	REMARKS

REMARKS: DESIGN & CONSTRUCTION DATA DERIVED BY EXTENDING EXISTING DATA FOR THE STATION (BRIDGE) PARALLEL TO THE EXISTING BRIDGE. THE DATA IS BASED ON THE EXISTING BRIDGE DATA AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.



Location
Township - 34S
Range - 16E
Section 26

Latitude: 27.5133226 North
Longitude: -82.617576 West



LEGEND

- SP-SM, Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
- SM, Silty sands, sand-silt mixtures.
- SM-SC, Silty sands, sand-silt mixtures to clayey sands, sand-clay mixtures.
- ML, Inorganic silts, very fine sands, rock flour, silty or clayey, fine sands.
- MH, Inorganic silts micaceous or diatomaceous fine sands or silts, elastic silts.

NOTES

Numbers to the left of borings indicate SPT values for 300 mm penetration, (Unless otherwise noted.)

50/90 = Number of blows for 90 mm of penetration.

□ = Casing Used

▽ = Water Table

⊙ = Boring Location

Type Rig = Diedrich 50

Hammer Used = Diedrich Automatic

All Elevations based on BM # MC-16

WATER

Resistivity ≥ 20 ohm-cm, Chlorides $\geq 12,000$ ppm, Sulfates ≥ 20 ppm, pH ≥ 6.0

ENVIRONMENTAL CLASSIFICATION

Substructure = Extremely Aggressive

Superstructure = Extremely Aggressive

BENCHMARK LOCATION DESCRIPTION

Station 222+00, 22.9 m Right.

BENCHMARK DESCRIPTION

Standard F.D.D.T. concrete monument with brass disc.

Granular Materials- Relative Density

	SPT (Blows/300 mm)
Very Loose	Less than 4
Loose	4 - 10
Medium or Compact	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

Silts and Clays- Consistency

	SPT (Blows/300 mm)
Very Soft	Less than 2
Soft	2 - 4
Firm	4 - 8
Stiff	8 - 15
Very Stiff	15 - 30
Hard	Greater than 30

REVISIONS

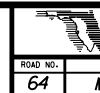
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/10/97	MEH	Sheet converted from English to Metric			
5/09/98	MEH	Bridge drawing converted from English to Metric			

NAME	DATE
DWL	6/97
MJB	6/97
APPROVED BY	T.J. Puckett

ENGINEER OF RECORD
MATERIALS OFFICE
DISTRICT 1
801 N. Broadway
Bartow, Florida 33830-1249



SEAL



FLORIDA DEPARTMENT OF TRANSPORTATION
MATERIALS OFFICE

ROAD NO.	COUNTY	PROJECT NO.
64	Manatee	13150-3530

SHEET TITLE: REPORT OF CORE BORING

PROJECT NAME: SR. 64 over Perico Bayou
Bridge Number 130152

DRAWING NO.

INDEX NO.