

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS
LANDSCAPE PLANS
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO. SHEET DESCRIPTION

1	KEY SHEET
2-38	SUMMARY OF PAY ITEMS
4	DRAINAGE MAP
5-8	TYPICAL SECTIONS
9	TYPICAL SECTION DETAILS
10-12	SUMMARY OF QUANTITIES
13-14	SUMMARY OF DRAINAGE STRUCTURES
15	OPTIONAL MATERIALS TABULATION
16-18	PROJECT LAYOUT
19-21	REFERENCE POINTS
22-31	ROADWAY PLANS
32-41	ROADWAY PROFILES
42-51	BACK OF SIDEWALK PROFILES
52-64	DRAINAGE STRUCTURES
65-66	POND DETAILS
67-68	SPECIAL DETAILS
69	ROADWAY SOILS SURVEY
70-71	MUCK DELINEATION PLAN
72	CLAY DELINEATION PLAN
73	POND BORING LOCATIONS
74-123	CROSS SECTIONS
124-125	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
126-133	EROSION CONTROL PLANS
134-197	TRAFFIC CONTROL PLANS
198-206	UTILITY ADJUSTMENTS

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED JANUARY 2006,
AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION DATED 2004,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 7-1-06

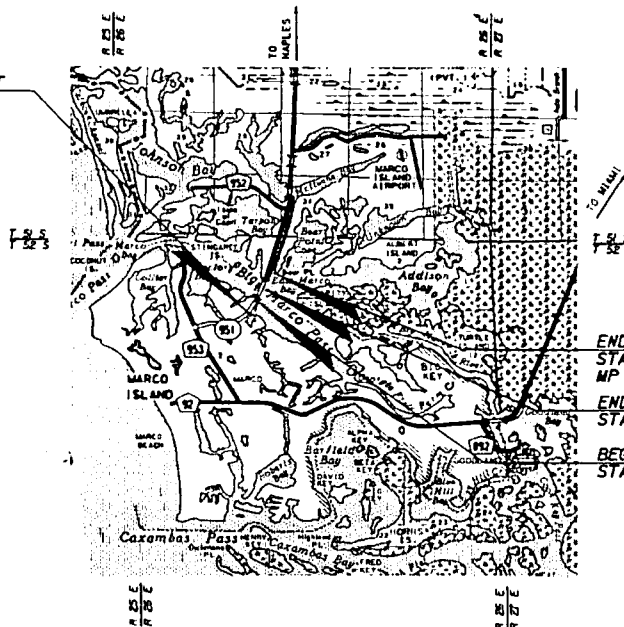
FOR DESIGN STANDARDS MODIFICATIONS CLICK ON "DESIGN STANDARDS"
AT THE FOLLOWING WEB SITE: [HTTP://WWW.DOT.STATE.FL.US/RDDSIGN/](http://www.dot.state.fl.us/rddesign/)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 195410-1-52-01
STATE PROJECT NO. 03030-3520
COLLIER COUNTY (03030)
STATE ROAD NO. 951

BEGIN PROJECT
STA. 98+50.00
MP 2.369



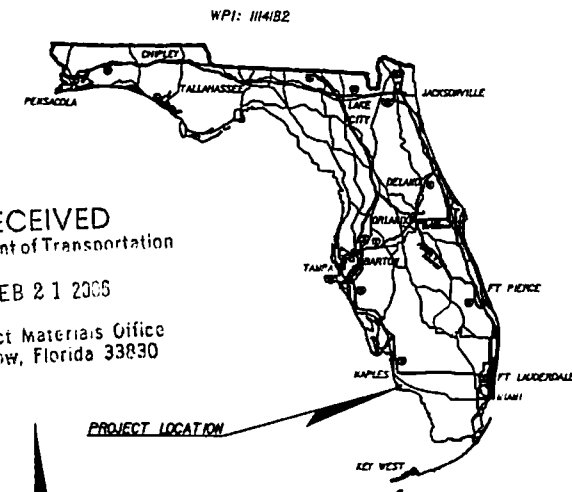
END PROJECT
STA. 139+87.44
MP 3.152
END BRIDGE
STA. 126+99.00
BEGIN BRIDGE
STA. 111+01.00

PROJECT LENGTH IS BASED ON E CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	2539.44	0.481
BRIDGES	1598.00	0.302
NET LENGTH OF PROJECT	4137.44	0.783
EXCEPTIONS	N/A	N/A
GROSS LENGTH OF PROJECT	4137.44	0.783

FDOT PROJECT MANAGER: MARK PERONTO, P.E.

RECEIVED
Department of Transportation
FEB 21 2005
District Materials Office
Bertow, Florida 33830



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

Daroy H. Watson, P.E.
18302 Highwoods Preserve Parkway
Highwoods Plaza, Suite 200
Tampa, FL 33647
Tel. (813) 977-3434
Contract No. EK059
Vendor No. 43-0637009

PLANS PREPARED BY:

JE Jacobs Civil Inc.
18302 Highwoods Preserve Parkway
Highwoods Plaza, Suite 200
Tampa, FL 33647
Tel. (813) 977-3434
Contract No. EK059
Vendor No. 43-0637009

CERTIFICATE OF AUTHORIZATION NO. 6572

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

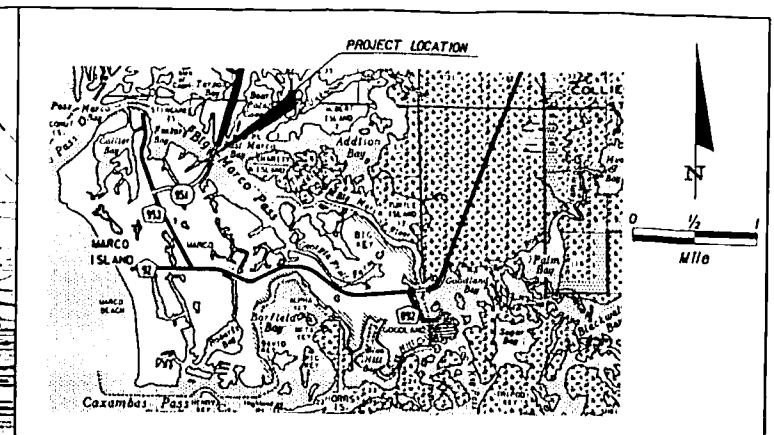
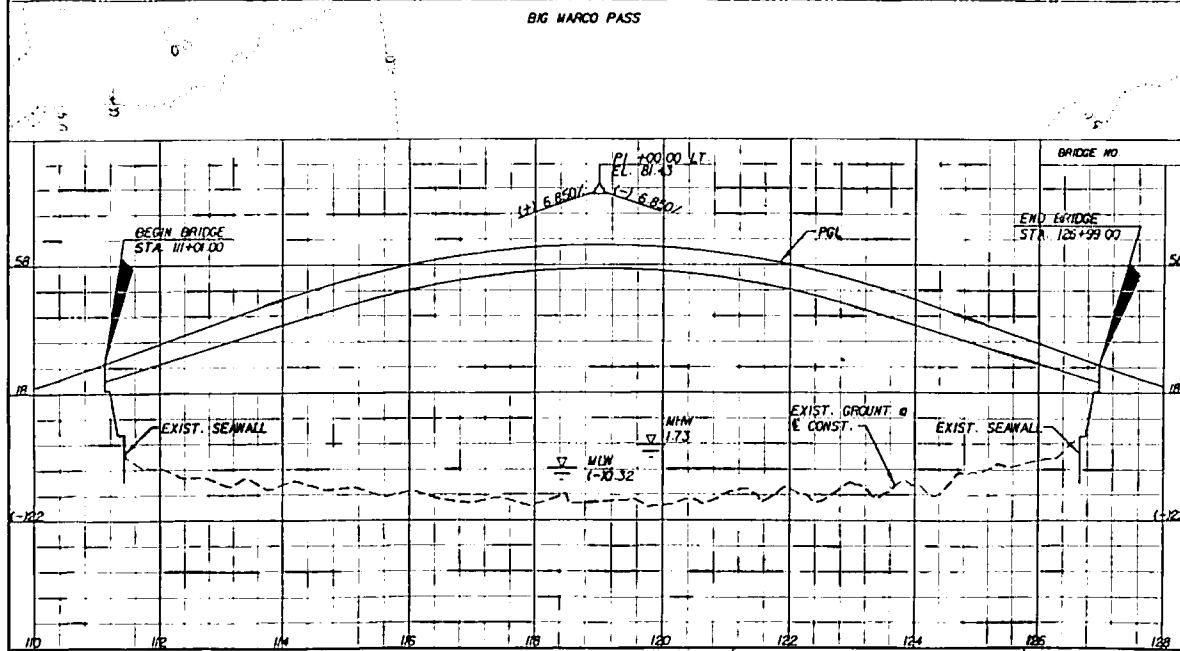
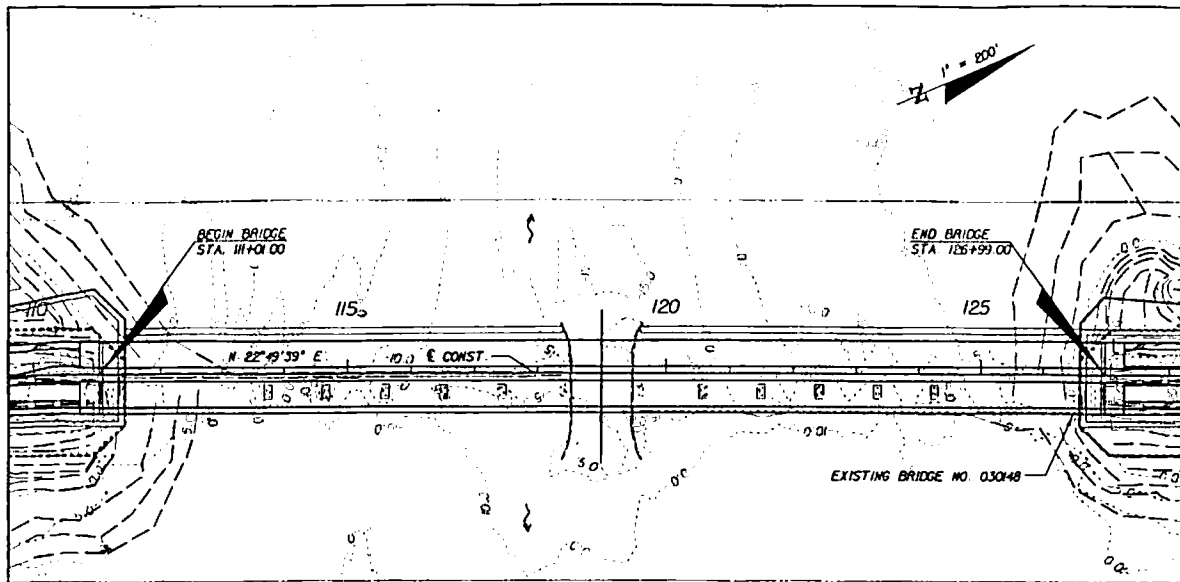
PHASE II SUBMITTAL
FEBRUARY, 2006

ROADWAY PLANS
ENGINEER OF RECORD: DARCY H. WATSON P.E.

P.E. NO.: 57169

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

FISCAL YEAR	SHEET NO.
	1



REFERENCE	EXISTING STRUCTURES				PROPOSED STRUCTURE
	(1)	(2)	(3)	(4)	
FOUNDATION	2" SQUARE CORC PILE				2" SQ CORC PILE
OVERALL LENGTH	1.585 FT				1.585 FT
SPAN LENGTH	80% 180% 20% 180%				60% 180% 20% 180%
TYPE OF CONSTRUCTION	CONC. W/ REINFORCED STEEL RIBBERS				CONC. RIBBERS 20.500 SF
AREA OF OPENING 0.0 F.	31.500 SF				67'-00" SQ 115.500 SF
BRIDGE WIDTH	12'-0"				20'-0" FT-WAY
FLY LOW MEMBER	12.300"				

HYDRAULIC DESIGN DATA

NOTE: The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgments and assumptions are required to achieve these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

TERMS:
Design Flood: Utilized to ensure a desired level of hydraulic performance.
Base Flood: Has a 1% chance of being exceeded in any given year (100 year frequency).
Overlapping Flood: Causes flow over the highway, over a watershed divide, or thru emergency relief structures.
Greatest Flood: The most severe that can be predicted where overlapping is not practicable.

WATER SURFACE ELEVATIONS:	N.H.W. (100-Yr.)	N.H.W. (10-Yr.)	N.H.W. (1-Yr.)
CONTROL (Down Island)	N/A	N/A	117.1 FT. MVD
CONTROL (Up Island)	N/A	N/A	110.32 FT. MVD
FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD
STAGE ELEV. MVD (ft)	118.4 FT. MVD	118.4 FT. MVD	118.4 FT. MVD
DISCHARGE (cfs)	118,400	118,400	118,400
AVERAGE VELOCITY (ft/s)	11.8	11.8	11.8
EXCEEDANCE PROB. (1/)	1	1	1
FREQUENCY (yr.)	100	100	100
SCOUR PREDICTIONS FOR PROPOSED STRUCTURE DESCRIBED ABOVE:	PIER INFORMATION	LONG TERM SCOUR ELEV.	WORST CASE SCOUR ELEV.
	PIERS 1-2	118.4 FT. MVD	118.4 FT. MVD
	PIERS 3-4	118.4 FT. MVD	118.4 FT. MVD
	PIERS 5-6	118.4 FT. MVD	118.4 FT. MVD
	PIERS 7-8	118.4 FT. MVD	118.4 FT. MVD

HYDRAULIC RECOMMENDATIONS

1. BEGIN BRIDGE STATION: STA. 110+00.00. END BRIDGE STATION: STA. 126+99.00. SKEW ANGLE: 0°

2. CLEARANCE PROVIDED: NAV. HORIZ. 10' VERT. 11' ABOVE EL. 117.1 FT. MVD. HORIZ. 11' VERT. 11' ABOVE EL. 117.1 FT. MVD.

3. MINIMUM CLEARANCE: NAV. HORIZ. 10' VERT. 11' ABOVE EL. 117.1 FT. MVD. HORIZ. 11' VERT. 11' ABOVE EL. 117.1 FT. MVD.

4. ABUTMENTS:

BEGIN BRIDGE: RUMBLE GRADE: FOOT BANK AND SHOULDER PROTECTION. SLOPE: SEE RECOMMENDATIONS (2). BURIED OR NON-BURIED HORIZ. TOE: BURIED. TOE HORIZ. DISTANCE: 10' MINIMUM. LIMIT OF PROTECTION: 203.56' (WEST SIDE), 202.82' (EAST SIDE).

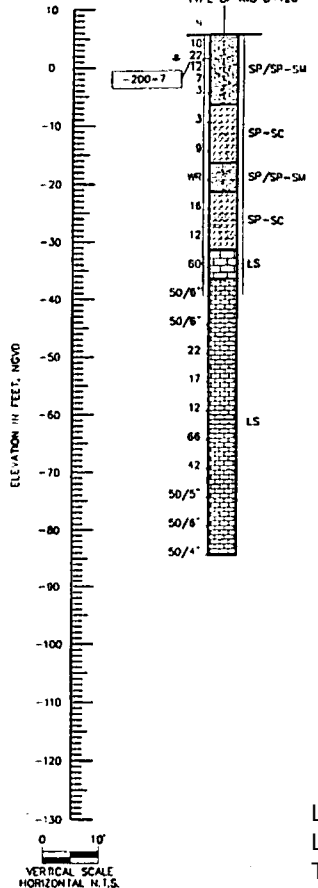
END BRIDGE: RUMBLE GRADE: FOOT BANK AND SHOULDER PROTECTION. SLOPE: SEE RECOMMENDATIONS (2). BURIED OR NON-BURIED HORIZ. TOE: BURIED. TOE HORIZ. DISTANCE: 10' MINIMUM. LIMIT OF PROTECTION: 203.56' (WEST SIDE), 202.82' (EAST SIDE).

5. DECK DRAINAGE: DECK DRAINAGE WILL BE REMOVED FROM DECK VIA BARRIER WALL INLETS LOCATED AT THE APPROACHES AND THEN CONVEYED BY STORM SEWER TO STORMWATER MANAGEMENT FACILITIES OF THE SOUTH AND TO ROADSIDE SWALES ON THE NORTH.

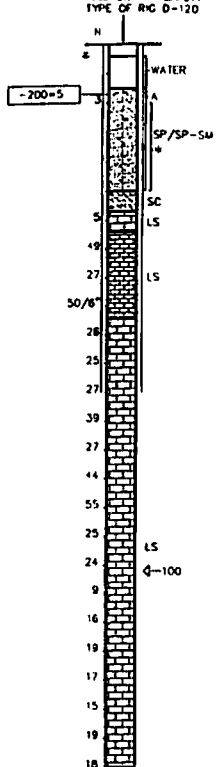
REMARKS: (1) ELEVATION CORRESPONDS TO MAXIMUM ELEVATION DURING DESIGN (1% CHANCE OF OCCURRENCE) FLOOD. (2) ABUTMENT PROTECTION COMPREHENSIVE USE WALL AT BEGIN AND END BRIDGE. RUMBLE RAMPUP PROVIDES THE SCOUR PROTECTION AND EXTENDS 10 FT (MIN) FROM WALL AND EXTENDS THE ENTIRE WALL LENGTH. RAMPUP PROTECTION COMPREHENSIVE DOUBLE LAYER OF FOOT STANOARD BARR AND SHORE PROTECTION OVER 1 FT THICKNESS OF BEDDING STONE OVER BESTESTLE FACING TOP OF RAMPUP ELEVATION WILL MATCH EXISTING GRADE.

REVISIONS						OEA, Inc. 2531 NW 44th Street, Bldg. D Coltmanville, FL 32706 Tel. (352) 377-9524 CERTIFICATE OF AUTHORIZATION NO. 00029545 ENGINEER OF RECORD MARK GOSSELINK P.E. No. 54594	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR. 951 OVER BIG MARCO PASS BRIDGE HYDRAULIC RECOMMENDATIONS	SHEET NO. BI-7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 951	COLLIER	195410-1-52-01		

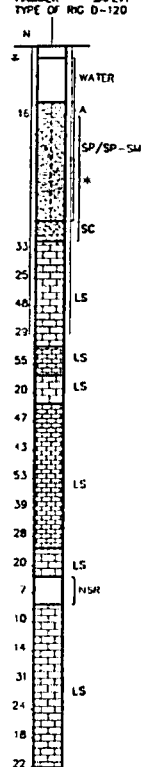
BORING NO. B-1
STATION NO. 111+03
OFFSET 76' LT.
ELEVATION 3.5'
DATE 02/20/03
HAMMER SAFETY
TYPE OF RIG D-120



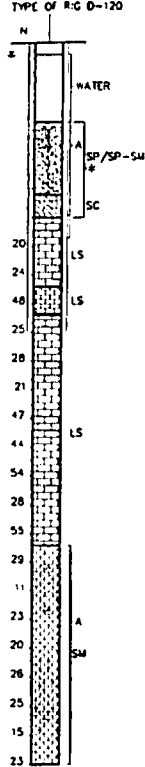
BORING NO. B-2
STATION NO. 111+71
OFFSET 61' LT.
ELEVATION 3.5'
DATE 02/27/03
HAMMER SAFETY
TYPE OF RIG D-120



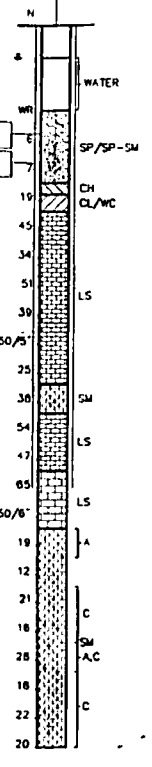
BORING NO. B-3
STATION NO. 112+39
OFFSET 46' LT.
ELEVATION 3.7'
DATE 02/28/03
HAMMER SAFETY
TYPE OF RIG D-120



BORING NO. B-4
STATION NO. 113+07
OFFSET 61' LT.
ELEVATION 3.8'
DATE 03/03/03
HAMMER SAFETY
TYPE OF RIG D-120



BORING NO. B-5
STATION NO. 113+70
OFFSET 73' LT.
ELEVATION -7.1'
DATE 05/07/03
HAMMER SAFETY
TYPE OF RIG D-120



LEGEND

- (SP/SP-SM), LIGHT BROWN CLEAN TO SLIGHTLY SILTY FINE SAND
- (SP-SC), BROWN TO GRAY SLIGHTLY CLAYEY TO SLIGHTLY SILTY SAND, WITH SHELL
- (LS), LIGHT GRAY CEMENTED CALCAREOUS SANDS AND SHELL (UNCONSOLIDATED LIMESTONE)
- (LS), LIGHT GRAY TO GRAY CEMENTED CALCAREOUS SANDS WITH SHELL AND MARL (LIMESTONE FORMATION)
- (SM), GRAY SILTY SAND
- (SC), GREEN GRAY CLAYEY SAND
- (CL/MC), CALCAREOUS CLAY WITH SOME LIMESTONE FRAGMENTS
- (CH), GREEN GRAY CLAY

- A INDICATES WITH SHELL
- B INDICATES WITH LIMESTONE FRAGMENTS
- C INDICATES WITH CEMENTED SANDS

NOTES:

- * WATER TABLE
- ** NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION (UNLESS OTHERWISE NOTED.)

CASING USED

- WR FELL UNDER WEIGHT OF ROD

- ← LOSS OF CIRCULATION (%)

- 50/6" FIFTY BLOWS FOR SIX INCHES

- * SAMPLING NOT PERFORMED WITHIN THESE DEPTHS

- WH FELL UNDER WEIGHT OF ROD AND HAMMER

- || SHIELBY TUBE SAMPLE LOCATION

- NSR NO SAMPLE RECOVERED

- NMC NATURAL MOISTURE CONTENT (%)

- 200 FINES PASSING NO. 200 SIEVE (%)

- LL LIQUID LIMIT (%)

- PI PLASTICITY INDEX (%)

ENVIRONMENTAL CLASSIFICATION

- SUBSTRUCTURE: EXTREMELY AGGRESSIVE

- SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

WATER

- RESISTIVITY: 21-22 OHMS-CM

- CHLORIDES: 32,000 PPM

- SULFATES: 4,000 PPM

- pH: 6.3-6.4

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SANDS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

LATITUDE: 25.9635524 NORTH
LONGITUDE: -81.7095903 WEST
TOWNSHIP - 52S
RANGE - 26E
SECTION - 4

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



PROFESSIONAL SERVICE INDUSTRIES, INC.
6801 BENJAMIN CENTER DR., SUITE 112
TAMPA, FL 33634
(813)-886-1075
FLORIDA ENGINEERING CERTIFICATE
OF AUTHORIZATION No. 3684

FLORIDA DEPARTMENT OF TRANSPORTATION

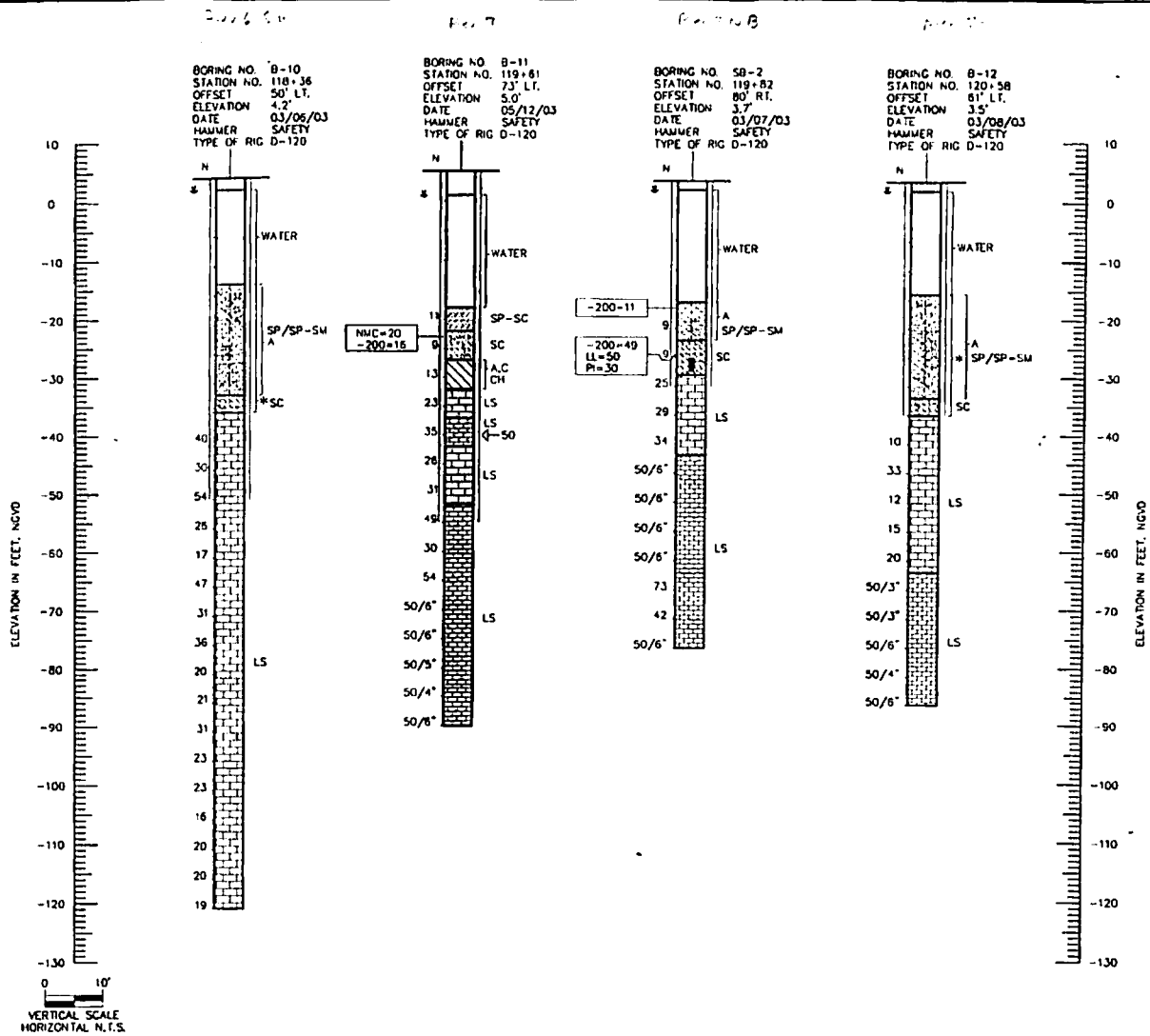
ROAD NO.	COUNTY	PROJECT NO.
S.R. 951	COLLIER	195410-1-32-01

REPORT OF CORE BORINGS

PROJECT NAME: MARCO ISLAND BRIDGE

SHEET NO. 81-8

PSI PROJECT No. 775-25310
SHEET 3



LEGEND

- (SP/SP-SM), LIGHT BROWN CLEAN TO SLIGHTLY SILTY FINE SAND
- (SP-SC), BROWN TO GRAY SLIGHTLY CLAYEY TO SLIGHTLY SILTY SAND, WITH SHELL
- (LS), LIGHT GRAY CEMENTED CALcareous SANDS AND SHELL (UNCONSOLIDATED LIMESTONE)
- (LS), LIGHT GRAY TO GRAY CEMENTED CALcareous SANDS WITH SHELL AND WARR (LIMESTONE FORMATION)
- (SM), GRAY SILTY SAND
- (SC), GREEN GRAY CLAYEY SAND
- (CL/WC), CALcareous CLAY WITH SOME LIMESTONE FRAGMENTS
- (CH), GREEN GRAY CLAY

- A INDICATES WITH SHELL
- B INDICATES WITH LIMESTONE FRAGMENTS
- C INDICATES WITH CEMENTED SANDS
- NOTES:
- * WATER TABLE
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED)
- || CASING USED
- WR FELL UNDER WEIGHT OF ROD
- ← LOSS OF CIRCULATION (%)
- 50/6" FIFTY BLOWS FOR SIX INCHES
- * SAMPLING NOT PERFORMED WITH IN THESE DEPTHS
- WH FELL UNDER WEIGHT OF ROD AND HAMMER
- || SHELBY TUBE SAMPLE LOCATION
- NSR NO SAMPLE RECOVERED
- NMC NATURAL MOISTURE CONTENT (%)
- 200 FINE PASSING NO. 200 SIEVE (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE
SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

WATER

RESISTIVITY: 21-22 OHM-CM
CHLORIDES: 32,000 PPM
SULFATES: 4,000 PPM
pH: 6.3-6.4

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

REVISIONS			
No.	By	Description	Date
1	PSI	Initial	08/03
2	PSI	Check	08/03
3	PSI	Check	08/03
4	PSI	Check	08/03
5	PSI	Check	08/03



PROFESSIONAL SERVICE INDUSTRIES, INC.
5801 BENJAMIN CENTER DR., SUITE 112
TAMPA, FL 33634
(813)-888-1075
FLORIDA ENGINEERING CERTIFICATE
OF AUTHORIZATION No. 3684

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT C.
S.R. 951	COLLER	195410-1-32-01

REPORT OF CORE BORINGS

PROJECT NAME
MARCO ISLAND BRIDGE

SHEET NO.
31-10

PSI PROJECT No. 773-35310
SHEET 3

LEGEND

- (SP/SP-SM) LIGHT BROWN CLEAN TO SLIGHTLY SILTY FINE SAND
- (SP-SC) BROWN TO GRAY SLIGHTLY CLAYEY TO SLIGHTLY SILTY SAND, WITH SHELL
- (LS) LIGHT GRAY CEMENTED CALcareous SANDS AND SHELL (UNCONSOLIDATED LIMESTONE)
- (LS) LIGHT GRAY TO GRAY CEMENTED CALcareous SANDS WITH SHELL AND WAIL (LIMESTONE FORMATION)
- (SM) GRAY SILTY SAND
- (SC) GREEN GRAY CLAYEY SAND
- (CL/WC) CALcareous CLAY WITH SOME LIVEROCK FRAGMENTS
- (CH) GREEN GRAY CLAY

- A INDICATES WITH SHELL
 - B INDICATES WITH LIVEROCK FRAGMENTS
 - C INDICATES WITH CEMENTED SANDS
- NOTES:
- * WATER TABLE
 - N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION (UNLESS OTHERWISE NOTED.)

- || CASING USED
- NR TELL UNDER WEIGHT OF ROD
- Q LOSS OF CIRCULATION (%)
- 50/6" FIFTY BLOWS FOR SIX INCHES
- * SAMPLING NOT PERFORMED WITH IN THESE DEPTHS
- WH TELL UNDER WEIGHT OF ROD AND HAMMER
- || SHELBY TUBE SAMPLE LOCATION
- NSR NO SAMPLE RECOVERED
- NMC NATURAL MOISTURE CONTENT (%)
- 200 FINES PASSING NO. 200 SIEVE (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)

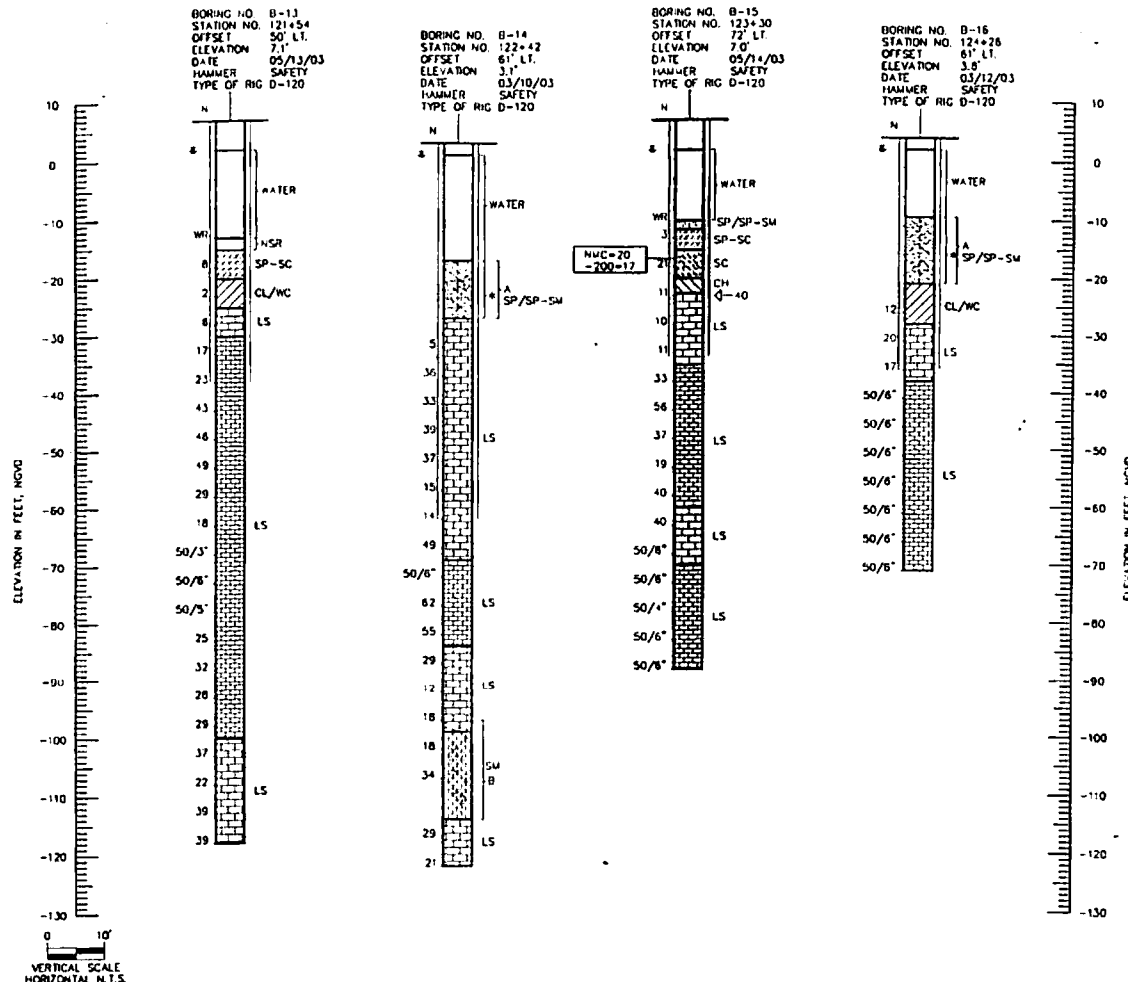
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE
SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

WATER

RESISTIVITY: 21-22 OHMS-CM
CHLORIDES: 32,000 PPM
SULFATES: 4,000 PPM
PH: 8.3-8.4

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30



1. 2000-12-15 14:30:00 2. 2000-12-15 14:30:00 3. 2000-12-15 14:30:00 4. 2000-12-15 14:30:00 5. 2000-12-15 14:30:00 6. 2000-12-15 14:30:00 7. 2000-12-15 14:30:00 8. 2000-12-15 14:30:00 9. 2000-12-15 14:30:00 10. 2000-12-15 14:30:00 11. 2000-12-15 14:30:00 12. 2000-12-15 14:30:00 13. 2000-12-15 14:30:00 14. 2000-12-15 14:30:00 15. 2000-12-15 14:30:00 16. 2000-12-15 14:30:00 17. 2000-12-15 14:30:00 18. 2000-12-15 14:30:00 19. 2000-12-15 14:30:00 20. 2000-12-15 14:30:00 21. 2000-12-15 14:30:00 22. 2000-12-15 14:30:00 23. 2000-12-15 14:30:00 24. 2000-12-15 14:30:00 25. 2000-12-15 14:30:00 26. 2000-12-15 14:30:00 27. 2000-12-15 14:30:00 28. 2000-12-15 14:30:00 29. 2000-12-15 14:30:00 30. 2000-12-15 14:30:00 31. 2000-12-15 14:30:00 32. 2000-12-15 14:30:00 33. 2000-12-15 14:30:00 34. 2000-12-15 14:30:00 35. 2000-12-15 14:30:00 36. 2000-12-15 14:30:00 37. 2000-12-15 14:30:00 38. 2000-12-15 14:30:00 39. 2000-12-15 14:30:00 40. 2000-12-15 14:30:00 41. 2000-12-15 14:30:00 42. 2000-12-15 14:30:00 43. 2000-12-15 14:30:00 44. 2000-12-15 14:30:00 45. 2000-12-15 14:30:00 46. 2000-12-15 14:30:00 47. 2000-12-15 14:30:00 48. 2000-12-15 14:30:00 49. 2000-12-15 14:30:00 50. 2000-12-15 14:30:00 51. 2000-12-15 14:30:00 52. 2000-12-15 14:30:00 53. 2000-12-15 14:30:00 54. 2000-12-15 14:30:00 55. 2000-12-15 14:30:00 56. 2000-12-15 14:30:00 57. 2000-12-15 14:30:00 58. 2000-12-15 14:30:00 59. 2000-12-15 14:30:00 60. 2000-12-15 14:30:00 61. 2000-12-15 14:30:00 62. 2000-12-15 14:30:00 63. 2000-12-15 14:30:00 64. 2000-12-15 14:30:00 65. 2000-12-15 14:30:00 66. 2000-12-15 14:30:00 67. 2000-12-15 14:30:00 68. 2000-12-15 14:30:00 69. 2000-12-15 14:30:00 70. 2000-12-15 14:30:00 71. 2000-12-15 14:30:00 72. 2000-12-15 14:30:00 73. 2000-12-15 14:30:00 74. 2000-12-15 14:30:00 75. 2000-12-15 14:30:00 76. 2000-12-15 14:30:00 77. 2000-12-15 14:30:00 78. 2000-12-15 14:30:00 79. 2000-12-15 14:30:00 80. 2000-12-15 14:30:00 81. 2000-12-15 14:30:00 82. 2000-12-15 14:30:00 83. 2000-12-15 14:30:00 84. 2000-12-15 14:30:00 85. 2000-12-15 14:30:00 86. 2000-12-15 14:30:00 87. 2000-12-15 14:30:00 88. 2000-12-15 14:30:00 89. 2000-12-15 14:30:00 90. 2000-12-15 14:30:00 91. 2000-12-15 14:30:00 92. 2000-12-15 14:30:00 93. 2000-12-15 14:30:00 94. 2000-12-15 14:30:00 95. 2000-12-15 14:30:00 96. 2000-12-15 14:30:00 97. 2000-12-15 14:30:00 98. 2000-12-15 14:30:00 99. 2000-12-15 14:30:00 100. 2000-12-15 14:30:00 101. 2000-12-15 14:30:00 102. 2000-12-15 14:30:00 103. 2000-12-15 14:30:00 104. 2000-12-15 14:30:00 105. 2000-12-15 14:30:00 106. 2000-12-15 14:30:00 107. 2000-12-15 14:30:00 108. 2000-12-15 14:30:00 109. 2000-12-15 14:30:00 110. 2000-12-15 14:30:00 111. 2000-12-15 14:30:00 112. 2000-12-15 14:30:00 113. 2000-12-15 14:30:00 114. 2000-12-15 14:30:00 115. 2000-12-15 14:30:00 116. 2000-12-15 14:30:00 117. 2000-12-15 14:30:00 118. 2000-12-15 14:30:00 119. 2000-12-15 14:30:00 120. 2000-12-15 14:30:00 121. 2000-12-15 14:30:00 122. 2000-12-15 14:30:00 123. 2000-12-15 14:30:00 124. 2000-12-15 14:30:00 125. 2000-12-15 14:30:00 126. 2000-12-15 14:30:00 127. 2000-12-15 14:30:00 128. 2000-12-15 14:30:00 129. 2000-12-15 14:30:00 130. 2000-12-15 14:30:00 131. 2000-12-15 14:30:00 132. 2000-12-15 14:30:00 133. 2000-12-15 14:30:00 134. 2000-12-15 14:30:00 135. 2000-12-15 14:30:00 136. 2000-12-15 14:30:00 137. 2000-12-15 14:30:00 138. 2000-12-15 14:30:00 139. 2000-12-15 14:30:00 140. 2000-12-15 14:30:00 141. 2000-12-15 14:30:00 142. 2000-12-15 14:30:00 143. 2000-12-15 14:30:00 144. 2000-12-15 14:30:00 145. 2000-12-15 14:30:00 146. 2000-12-15 14:30:00 147. 2000-12-15 14:30:00 148. 2000-12-15 14:30:00 149. 2000-12-15 14:30:00 150. 2000-12-15 14:30:00 151. 2000-12-15 14:30:00 152. 2000-12-15 14:30:00 153. 2000-12-15 14:30:00 154. 2000-12-15 14:30:00 155. 2000-12-15 14:30:00 156. 2000-12-15 14:30:00 157. 2000-12-15 14:30:00 158. 2000-12-15 14:30:00 159. 2000-12-15 14:30:00 160. 2000-12-15 14:30:00 161. 2000-12-15 14:30:00 162. 2000-12-15 14:30:00 163. 2000-12-15 14:30:00 164. 2000-12-15 14:30:00 165. 2000-12-15 14:30:00 166. 2000-12-15 14:30:00 167. 2000-12-15 14:30:00 168. 2000-12-15 14:30:00 169. 2000-12-15 14:30:00 170. 2000-12-15 14:30:00 171. 2000-12-15 14:30:00 172. 2000-12-15 14:30:00 173. 2000-12-15 14:30:00 174. 2000-12-15 14:30:00 175. 2000-12-15 14:30:00 176. 2000-12-15 14:30:00 177. 2000-12-15 14:30:00 178. 2000-12-15 14:30:00 179. 2000-12-15 14:30:00 180. 2000-12-15 14:30:00 181. 2000-12-15 14:30:00 182. 2000-12-15 14:30:00 183. 2000-12-15 14:30:00 184. 2000-12-15 14:30:00 185. 2000-12-15 14:30:00 186. 2000-12-15 14:30:00 187. 2000-12-15 14:30:00 188. 2000-12-15 14:30:00 189. 2000-12-15 14:30:00 190. 2000-12-15 14:30:00 191. 2000-12-15 14:30:00 192. 2000-12-15 14:30:00 193. 2000-12-15 14:30:00 194. 2000-12-15 14:30:00 195. 2000-12-15 14:30:00 196. 2000-12-15 14:30:00 197. 2000-12-15 14:30:00 198. 2000-12-15 14:30:00 199. 2000-12-15 14:30:00 200. 2000-12-15 14:30:00 201. 2000-12-15 14:30:00 202. 2000-12-15 14:30:00 203. 2000-12-15 14:30:00 204. 2000-12-15 14:30:00 205. 2000-12-15 14:30:00 206. 2000-12-15 14:30:00 207. 2000-12-15 14:30:00 208. 2000-12-15 14:30:00 209. 2000-12-15 14:30:00 210. 2000-12-15 14:30:00 211. 2000-12-15 14:30:00 212. 2000-12-15 14:30:00 213. 2000-12-15 14:30:00 214. 2000-12-15 14:30:00 215. 2000-12-15 14:30:00 216. 2000-12-15 14:30:00 217. 2000-12-15 14:30:00 218. 2000-12-15 14:30:00 219. 2000-12-15 14:30:00 220. 2000-12-15 14:30:00 221. 2000-12-15 14:30:00 222. 2000-12-15 14:30:00 223. 2000-12-15 14:30:00 224. 2000-12-15 14:30:00 225. 2000-12-15 14:30:00 226. 2000-12-15 14:30:00 227. 2000-12-15 14:30:00 228. 2000-12-15 14:30:00 229. 2000-12-15 14:30:00 230. 2000-12-15 14:30:00 231. 2000-12-15 14:30:00 232. 2000-12-15 14:30:00 233. 2000-12-15 14:30:00 234. 2000-12-15 14:30:00 235. 2000-12-15 14:30:00 236. 2000-12-15 14:30:00 237. 2000-12-15 14:30:00 238. 2000-12-15 14:30:00 239. 2000-12-15 14:30:00 240. 2000-12-15 14:30:00 241. 2000-12-15 14:30:00 242. 2000-12-15 14:30:00 243. 2000-12-15 14:30:00 244. 2000-12-15 14:30:00 245. 2000-12-15 14:30:00 246. 2000-12-15 14:30:00 247. 2000-12-15 14:30:00 248. 2000-12-15 14:30:00 249. 2000-12-15 14:30:00 250. 2000-12-15 14:30:00 251. 2000-12-15 14:30:00 252. 2000-12-15 14:30:00 253. 2000-12-15 14:30:00 254. 2000-12-15 14:30:00 255. 2000-12-15 14:30:00 256. 2000-12-15 14:30:00 257. 2000-12-15 14:30:00 258. 2000-12-15 14:30:00 259. 2000-12-15 14:30:00 260. 2000-12-15 14:30:00 261. 2000-12-15 14:30:00 262. 2000-12-15 14:30:00 263. 2000-12-15 14:30:00 264. 2000-12-15 14:30:00 265. 2000-12-15 14:30:00 266. 2000-12-15 14:30:00 267. 2000-12-15 14:30:00 268. 2000-12-15 14:30:00 269. 2000-12-15 14:30:00 270. 2000-12-15 14:30:00 271. 2000-12-15 14:30:00 272. 2000-12-15 14:30:00 273. 2000-12-15 14:30:00 274. 2000-12-15 14:30:00 275. 2000-12-15 14:30:00 276. 2000-12-15 14:30:00 277. 2000-12-15 14:30:00 278. 2000-12-15 14:30:00 279. 2000-12-15 14:30:00 280. 2000-12-15 14:30:00 281. 2000-12-15 14:30:00 282. 2000-12-15 14:30:00 283. 2000-12-15 14:30:00 284. 2000-12-15 14:30:00 285. 2000-12-15 14:30:00 286. 2000-12-15 14:30:00 287. 2000-12-15 14:30:00 288. 2000-12-15 14:30:00 289. 2000-12-15 14:30:00 290. 2000-12-15 14:30:00 291. 2000-12-15 14:30:00 292. 2000-12-15 14:30:00 293. 2000-12-15 14:30:00 294. 2000-12-15 14:30:00 295. 2000-12-15 14:30:00 296. 2000-12-15 14:30:00 297. 2000-12-15 14:30:00 298. 2000-12-15 14:30:00 299. 2000-12-15 14:30:00 300. 2000-12-15 14:30:00 301. 2000-12-15 14:30:00 302. 2000-12-15 14:30:00 303. 2000-12-15 14:30:00 304. 2000-12-15 14:30:00 305. 2000-12-15 14:30:00 306. 2000-12-15 14:30:00 307. 2000-12-15 14:30:00 308. 2000-12-15 14:30:00 309. 2000-12-15 14:30:00 310. 2000-12-15 14:30:00 311. 2000-12-15 14:30:00 312. 2000-12-15 14:30:00 313. 2000-12-15 14:30:00 314. 2000-12-15 14:30:00 315. 2000-12-15 14:30:00 316. 2000-12-15 14:30:00 317. 2000-12-15 14:30:00 318. 2000-12-15 14:30:00 319. 2000-12-15 14:30:00 320. 2000-12-15 14:30:00 321. 2000-12-15 14:30:00 322. 2000-12-15 14:30:00 323. 2000-12-15 14:30:00 324. 2000-12-15 14:30:00 325. 2000-12-15 14:30:00 326. 2000-12-15 14:30:00 327. 2000-12-15 14:30:00 328. 2000-12-15 14:30:00 329. 2000-12-15 14:30:00 330. 2000-12-15 14:30:00 331. 2000-12-15 14:30:00 332. 2000-12-15 14:30:00 333. 2000-12-15 14:30:00 334. 2000-12-15 14:30:00 335. 2000-12-15 14:30:00 336. 2000-12-15 14:30:00 337. 2000-12-15 14:30:00 338. 2000-12-15 14:30:00 339. 2000-12-15 14:30:00 340. 2000-12-15 14:30:00 341. 2000-12-15 14:30:00 342. 2000-12-15 14:30:00 343. 2000-12-15 14:30:00 344. 2000-12-15 14:30:00 345. 2000-12-15 14:30:00 346. 2000-12-15 14:30:00 347. 2000-12-15 14:30:00 348. 2000-12-15 14:30:00 349. 2000-12-15 14:30:00 350. 2000-12-15 14:30:00 351. 2000-12-15 14:30:00 352. 2000-12-15 14:30:00 353. 2000-12-15 14:30:00 354. 2000-12-15 14:30:00 355. 2000-12-15 14:30:00 356. 2000-12-15 14:30:00 357. 2000-12-15 14:30:00 358. 2000-12-15 14:30:00 359. 2000-12-15 14:30:00 360. 2000-12-15 14:30:00 361. 2000-12-15 14:30:00 362. 2000-12-15 14:30:00 363. 2000-12-15 14:30:00 364. 2000-12-15 14:30:00 365. 2000-12-15 14:30:00 366. 2000-12-15 14:30:00 367. 2000-12-15 14:30:00 368. 2000-12-15 14:30:00 369. 2000-12-15 14:30:00 370. 2000-12-15 14:30:00 371. 2000-12-15 14:30:00 372. 2000-12-15 14:30:00 373. 2000-12-15 14:30:00 374. 2000-12-15 14:30:00 375. 2000-12-15 14:30:00 376. 2000-12-15 14:30:00 377. 2000-12-15 14:30:00 378. 2000-12-15 14:30:00 379. 2000-12-15 14:30:00 380. 2000-12-15 14:30:00 381. 2000-12-15 14:30:00 382. 2000-12-15 14:30:00 383. 2000-12-15 14:30:00 384. 2000-12-15 14:30:00 385. 2000-12-15 14:30:00 386. 2000-12-15 14:30:00 387. 2000-12-15 14:30:00 388. 2000-12-15 14:30:00 389. 2000-12-15 14:30:00 390. 2000-12-15 14:30:00 391. 2000-12-15 14:30:00 392. 2000-12-15 14:30:00 393. 2000-12-15 14:30:00 394. 2000-12-15 14:30:00 395. 2000-12-15 14:30:00 396. 2000-12-15 14:30:00 397. 2000-12-15 14:30:00 398. 2000-12-15 14:30:00 399. 2000-12-15 14:30:00 400. 2000-12-15 14:30:00 401. 2000-12-15 14:30:00 402. 2000-12-15 14:30:00 403. 2000-12-15 14:30:00 404. 2000-12-15 14:30:00 405. 2000-12-15 14:30:00 406. 2000-12-15 14:30:00 407. 2000-12-15 14:30:00 408. 2000-12-15 14:30:00 409. 2000-12-15 14:30:00 410. 2000-12-15 14:30:00 411. 2000-12-15 14:30:00 412. 2000-12-15 14:30:00 413. 2000-12-15 14:30:00 414. 2000-12-15 14:30:00 415. 2000-12-15 14:30:00 416. 2000-12-15 14:30:00 417. 2000-12-15 14:30:00 418. 2000-12-15 14:30:00 419. 2000-12-15 14:30:00 420. 2000-12-15 14:30:00 421. 2000-12-15 14:30:00 422. 2000-12-15 14:30:00 423. 2000-12-15 14:30:00 424. 2000-12-15 14:30:00 425. 2000-12-15 14:30:00 426. 2000-12-15 14:30:00 427. 2000-12-15 14:30:00 428. 2000-12-15 14:30:00 429. 2000-12-15 14:30:00 430. 2000-12-15 14:30:00 431. 2000-12-15 14:30:00 432. 2000-12-15 14:30:00 433. 2000-12-15 14:30:00 434. 2000-12-15 14:30:00 435. 2000-12-15 14:30:00 436. 2000-12-15 14:30:00 437. 2000-12-15 14:30:00 438. 2000-12-15 14:30:00 439. 2000-12-15 14:30:00 440. 2000-12-15 14:30:00 441. 2000-12-15 14:30:00 442. 2000-12-15 14:30:00 443. 2000-12-15 14:30:00 444. 2000-12-15 14:30:00 44

LEGEND

- (SP/SP-SM), LIGHT BROWN CLEAN TO SLIGHTLY SALTY FINE SAND
- (SP-SC), BROWN TO GRAY SLIGHTLY CLAYEY TO SLIGHTLY SILTY SAND, WITH SHELL
- (LS), LIGHT GRAY CEMENTED CALcareous SANDS AND SHELL (UNCONSOLIDATED LIMESTONE)
- (LS), LIGHT GRAY TO GRAY CEMENTED CALcareous SANDS WITH SHELL AND MARL (LIMESTONE FORMATION)
- (SM), GRAY SILTY SAND
- (SC), GREEN GRAY CLAYEY SAND
- (CL/WC), CALcareous CLAY WITH SOME LIMESTONE FRAGMENTS
- (CI), GREEN GRAY CLAY

- A INDICATES WITH SHELL
- B INDICATES WITH LIMESTONE FRAGMENTS
- C INDICATES WITH CEMENTED SANDS
- NOTES:
- * WATER TABLE
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION (UNLESS OTHERWISE NOTED.)
- || CASING USED
- WR FELL UNDER WEIGHT OF ROD
- ← LOSS OF CIRCULATION (X)
- 50/6 FIFTY BLOWS FOR SIX INCHES
- * SAMPLING NOT PERFORMED WITH IN THESE DEPTHS
- WH FELL UNDER WEIGHT OF ROD AND HAMMER
- || SHELBY TUBE SAMPLE LOCATION
- NSR NO SAMPLE RECOVERED
- NMC NATURAL MOISTURE CONTENT (%)
- 200 FINES PASSING NO. 200 SIEVE (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)

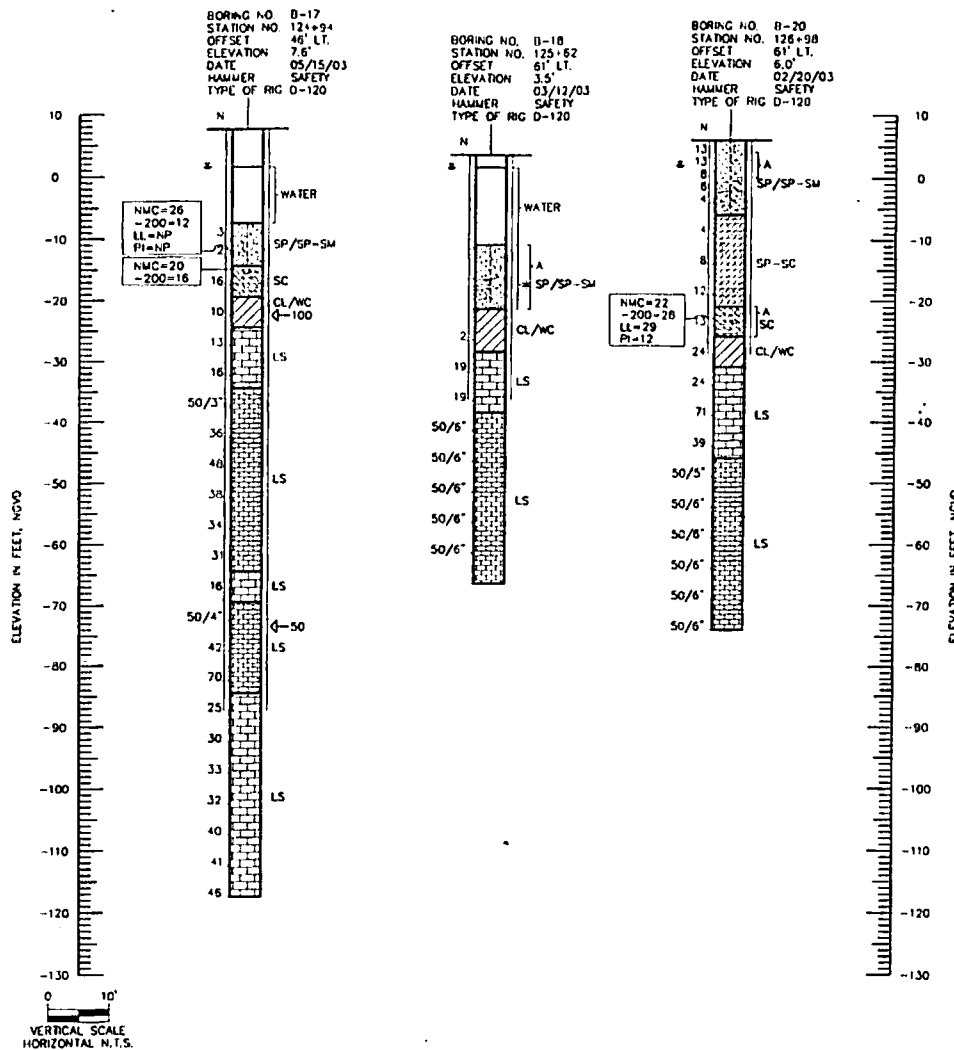
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE
SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

WATER

RESISTIVITY: 21-22 OHMS-CM
CHLORIDES: 32,000 PPM
SULFATES: 4,000 PPM
pH: 6.3-6.4

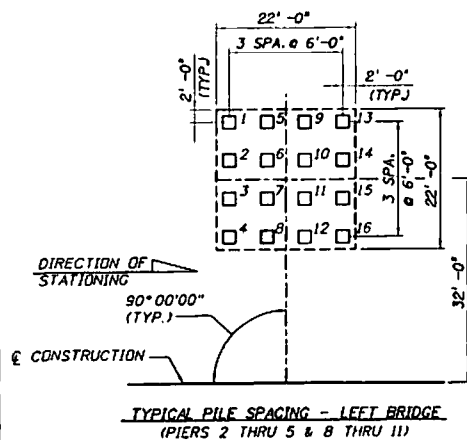
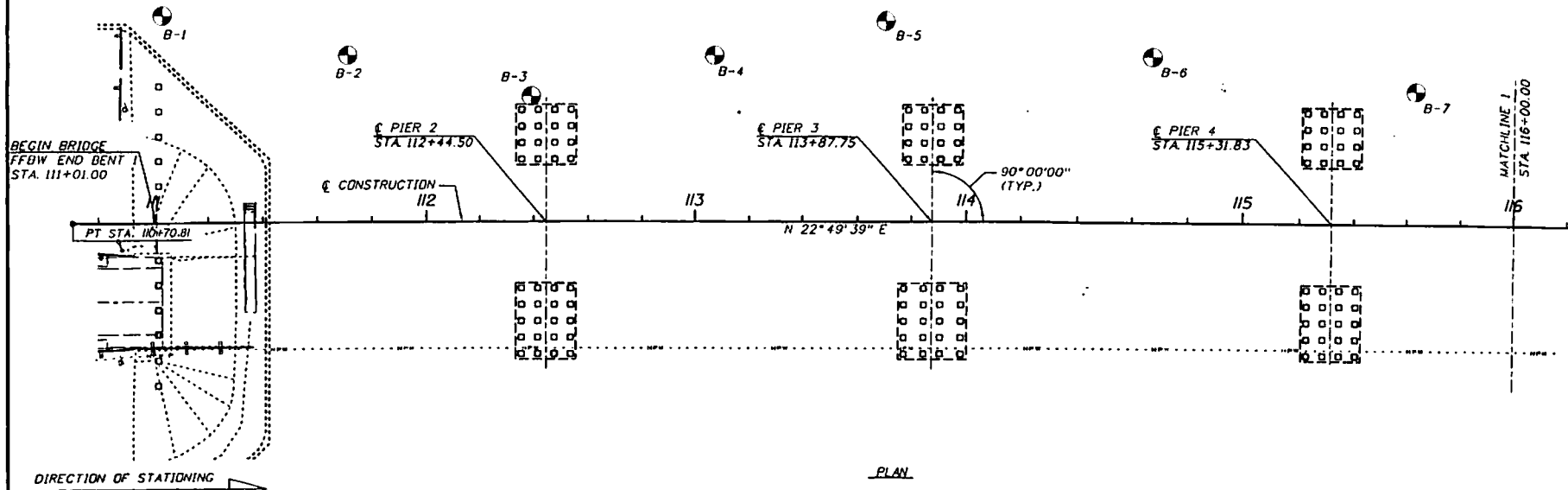
GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30



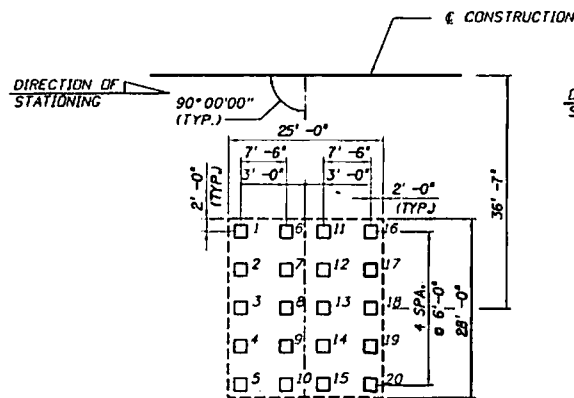
A:\env\env\773-2551\2310_25_031\marco-island-bridge\borings\23100

REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>No.</th> <th>By</th> <th>Description</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				No.	By	Description	Date					PROFESSIONAL SERVICE INDUSTRIES, INC. 5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL 33637 (813) 884-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684		FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>PROJECT NO.</th> </tr> <tr> <td>S.R. 951</td> <td>COLLIER</td> <td>195410-1-32-G1</td> </tr> </table>		ROAD NO.	COUNTY	PROJECT NO.	S.R. 951	COLLIER	195410-1-32-G1	REPORT OF CORE BORINGS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>PROJECT NAME</th> <th>SHEET NO.</th> </tr> <tr> <td>MARCO ISLAND BRIDGE</td> <td>12</td> </tr> </table>		PROJECT NAME	SHEET NO.	MARCO ISLAND BRIDGE	12
No.	By	Description	Date																								
ROAD NO.	COUNTY	PROJECT NO.																									
S.R. 951	COLLIER	195410-1-32-G1																									
PROJECT NAME	SHEET NO.																										
MARCO ISLAND BRIDGE	12																										

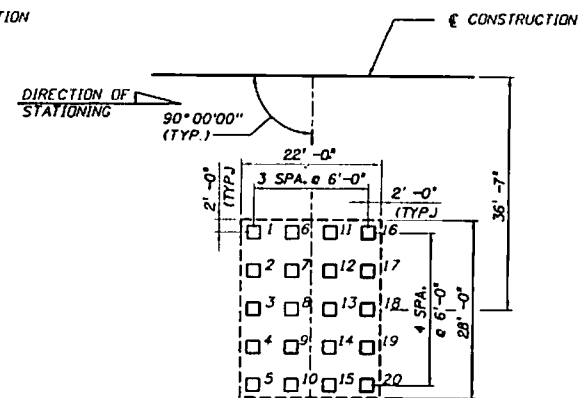
PSI PROJECT No. 773-2551
SHEET 7



TYPICAL PILE SPACING - LEFT BRIDGE
(PIERS 2 THRU 5 & 8 THRU 11)



TYPICAL PILE SPACING - RIGHT BRIDGE
(PIERS 3 AND 10)



TYPICAL PILE SPACING - RIGHT BRIDGE
(PIERS 2, 4, 5, 8, 9 AND 11)

NOTES:

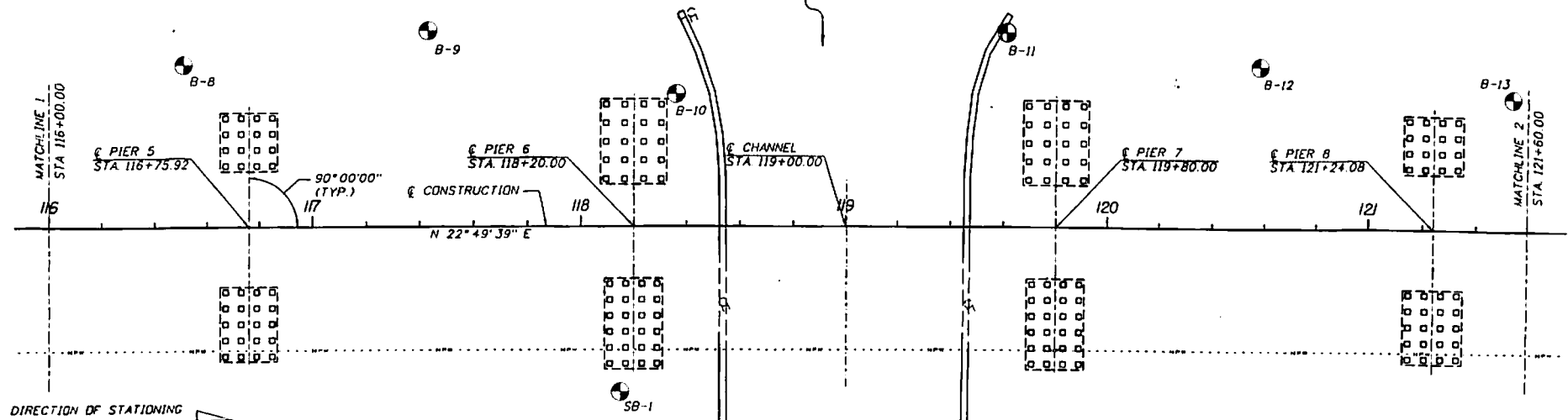
1. FOR ADDITIONAL NOTES,
SEE SHEET B-XX.
2. FOR PILE CUT-OFF ELEVATIONS,
SEE SHEET B-XX.
3. EXISTING PILES SHALL BE
REMOVED TO A MINIMUM
DEPTH OF 2'-0" BELOW
GROUND LINE.

LEGEND

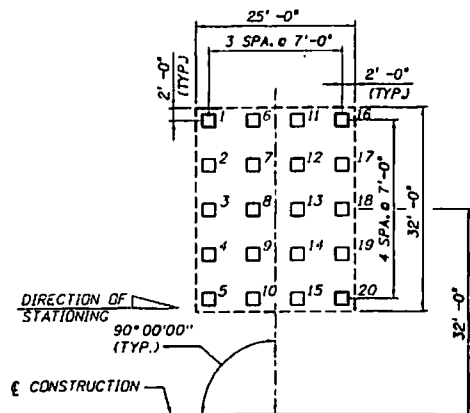
- - EXISTING CONCRETE PILES
- - PROPOSED 24" SQUARE PRESTRESSED CONCRETE PILES
- ⊙ - BORING LOCATION

REVISIONS										ENGINEER OF RECORD										FLORIDA DEPARTMENT OF TRANSPORTATION										BRIDGE NO. XXXXXX																			
DATE										NAME										DATE										SHEET NO.																			
DATE										NG/III										12/05										JACOBS CIVIL INC.																			
DESCRIPTION										CHECKED BY										ROAD NO.										COUNTY										FINANCIAL PROJECT ID									
DATE										DESIGNED BY										SR 951										COLLIER										195410-1-52-01									
DATE										APPROVED BY										JOHN HARTLAND										PROJECT NAME										SR 951 OVER BIG MARCO PASS									
DATE										DATE										DATE										DATE										DATE									

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60.5-23.003, F.A.C.

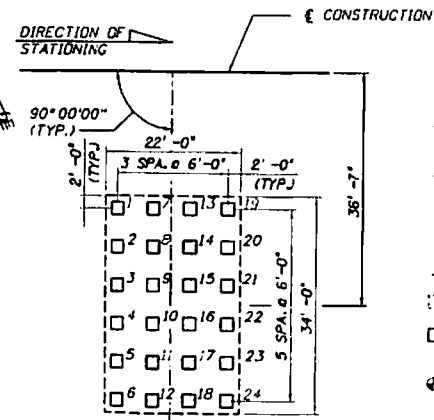


DIRECTION OF STATIONING



TYPICAL PILE SPACING - LEFT BRIDGE
(PIERS 6 AND 7)

PLAN



TYPICAL PILE SPACING - RIGHT BRIDGE
(PIERS 6 AND 7)

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET B-XX.
2. FOR PILE CUT-OFF ELEVATIONS, SEE SHEET B-XX.
3. EXISTING PILES SHALL BE REMOVED TO A MINIMUM DEPTH OF 2'-0" BELOW GROUND LINE.

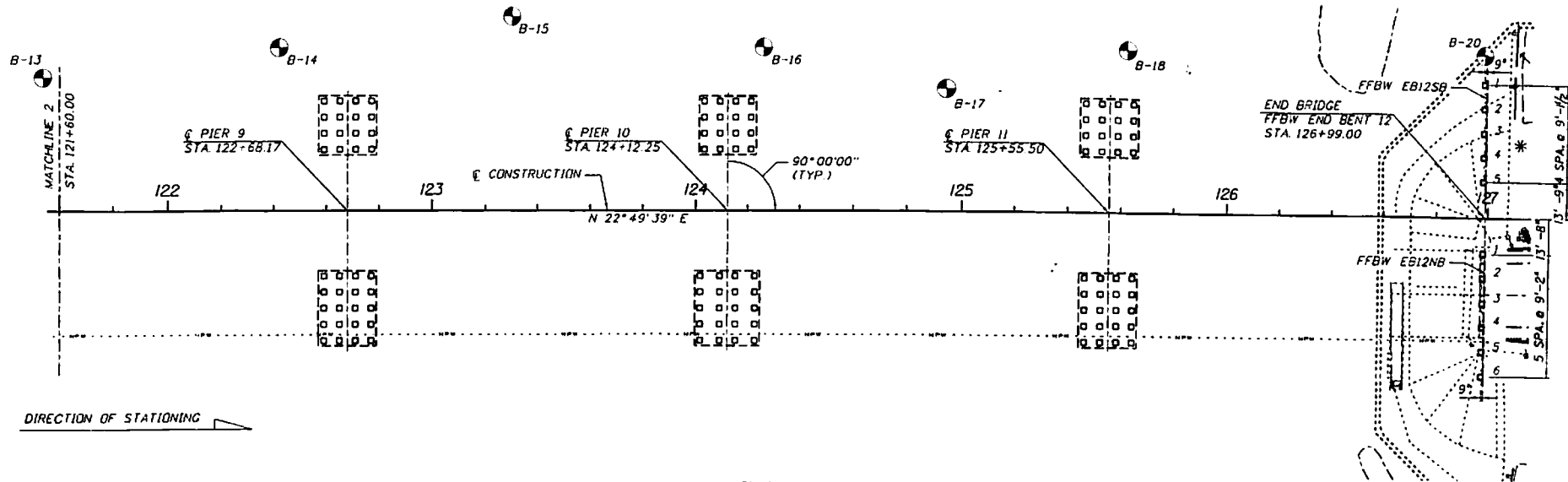
LEGEND

- EXISTING CONCRETE PILES
- PROPOSED 24" SQUARE PRESTRESSED CONCRETE PILES
- BORING LOCATION

REVISIONS				ENGINEER OF RECORD				FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET TITLE	
Date	By	Description		Drawn by	NG/III	Date	12/05	ROAD NO.	COUNTY	PROJECT NO.		FOUNDATION LAYOUT - (2 OF 3)	
				Checked by				SR 951	COLLIER	195410-1-52-01		SR 951 OVER BIG MARCO PASS	
				Designed by								SHEET NO.	
				Checked by								81-14	
				Approved by	JOHN HARTLAND								

BRIDGE NO. XXXXXX &
BRIDGE NO. XXXXXX

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6A05-23.003, F.A.C.



NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET B-XX.
2. FOR PILE CUT-OFF ELEVATIONS, SEE SHEET B-XX.
3. EXISTING PILES SHALL BE REMOVED TO A MINIMUM DEPTH OF 2'-0" BELOW GROUND LINE.

LEGEND

- - EXISTING CONCRETE PILES
- - PROPOSED 24" SQUARE PRESTRESSED CONCRETE PILES
- - BORING LOCATION

REVISIONS				ENGINEER OF RECORD		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE	
Date	By	Description	Date	Drawn by	NG/11	12/05	JACOBS CIVIL INC.	BRIDGE NO. 951 OVER BIG MARCO PASS	FOUNDATION LAYOUT - (3 OF 3)
				Checked by			SR 951	COLLIER	195410-1-52-01
				Designed by					
				Checked by					
				Approved by	JOHN HARTLAND				

BRIDGE NO. 951 OVER BIG MARCO PASS
FOUNDATION LAYOUT - (3 OF 3)

SR 951
COLLIER
195410-1-52-01

SHEET NO.
BI-15

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SHIELD AND SEALED UNDER RULE 65B-23.003, F.A.C.

