

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PLANS
LIGHTING PLANS (NOT INCLUDED IN THIS SUBMITTAL)
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

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1-3	SUMMARY OF PAY ITEMS
1-4	DRAINAGE MAP
1-5	SUPPLEMENTARY DRAINAGE
1-6	TYPICAL SECTION
1-7	SUMMARY OF QUANTITIES
1-8	SUMMARY OF DRAINAGE STRUCTURES
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GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2006,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2004,
AS AMENDED BY CONTRACT DOCUMENTS

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 1-1-06

For Design Standards modifications check on
"Design Standards" at the following web site:
<http://www.dot.state.fl.us/roadways>

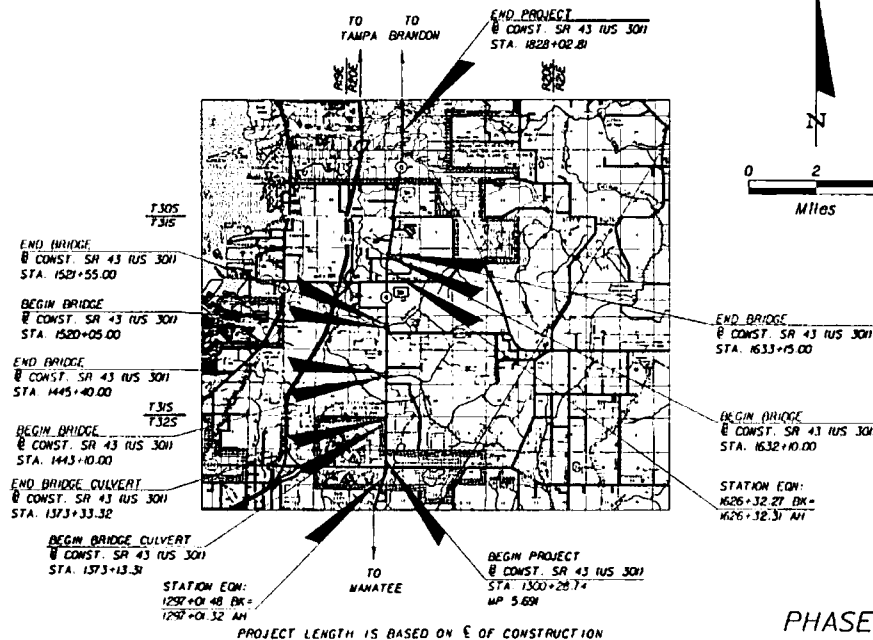
CONTRACT PLANS REVISIONS

FINANCIAL PROJECT ID 415489-1-52-01
COMPONENT SHEETS Revised Date

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

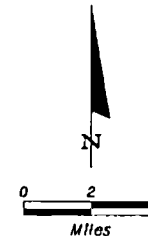
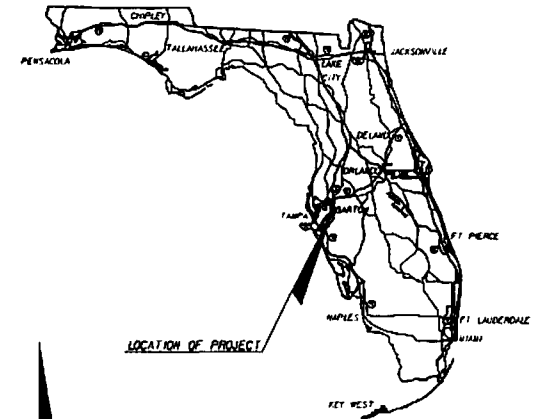
CONTRACT PLANS

FINANCIAL PROJECT ID 415489-1-52-01
(FEDERAL FUNDS)
HILLSBOROUGH COUNTY (10010)
STATE ROAD NO. 43 (US 301)
FROM SR 674 TO GIBSONTOWN DR.



LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	52269.03	9.899
BRIDGES	505.00	0.096
NET LENGTH OF PROJECT	52774.03	9.995
EXCEPTIONS	0	0
GROSS LENGTH OF PROJECT	52774.03	9.995

FDOT PROJECT MANAGER: GORDONA JOYANOVIC



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
TRACY A. MOOD, P.E.
HDR ENGINEERING, INC.
2502 N. WEST SHORE BLVD., SUITE 250
TAMPA, FL 33607
PHONE (813) 282-2300
FAX (813) 282-2441

PLANS PREPARED BY:

HDR ENGINEERING, INC.
2502 N. WEST SHORE BLVD., SUITE 250
TAMPA, FL 33607
CONTRACT NO. C-804
VENDOR NO. VF-470680568
FBPR CERTIFICATION OF
AUTHORIZATION NO. 423



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

PHASE II (60%) SUBMITTAL

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

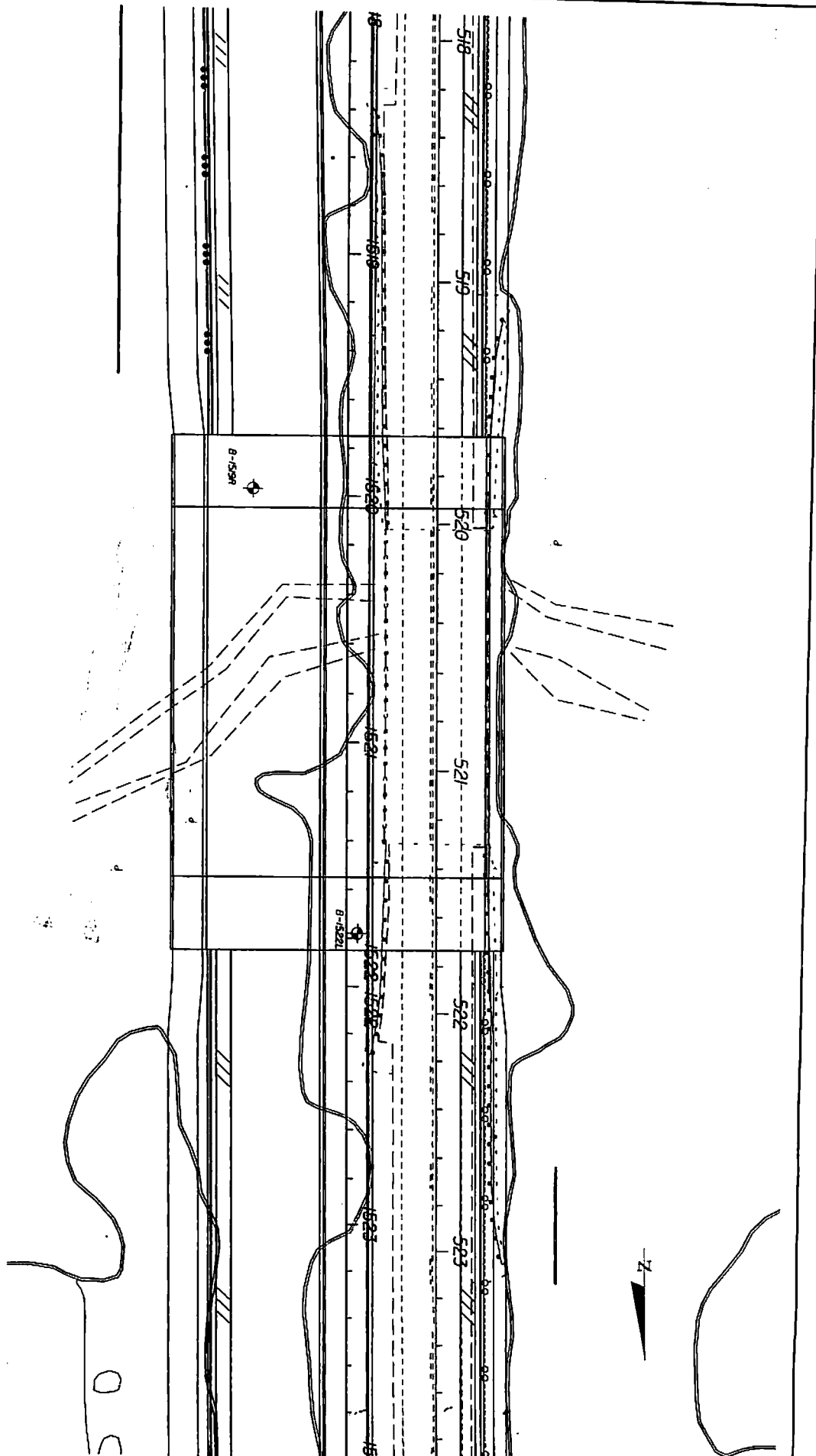
ROADWAY PLANS
ENGINEER OF RECORD: TRACY A. MOOD, P.E.

P.E. NO. 41027

FISCAL YEAR	SHEET NO.
07	1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 605-43.003, F.A.C.

BRIDGE NO. 000039									
DATE		REVISION		REVISION		REVISION		REVISION	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DESIGNED BY: WES 07/06 CHECKED BY: WES 07/06 DATE: 06/10/06 BY: WES 07/06 DATE: 06/10/06 PROJECT: FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT NO.: SR 43 PROJECT NAME: HILLSDOUGH CREEK PROJECT LOCATION: SR 43 (US 301) OVER LITTLE BULLFROG CREEK									
DESIGNED BY: WES 07/06 CHECKED BY: WES 07/06 DATE: 06/10/06 BY: WES 07/06 DATE: 06/10/06 PROJECT: FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT NO.: SR 43 PROJECT NAME: HILLSDOUGH CREEK PROJECT LOCATION: SR 43 (US 301) OVER LITTLE BULLFROG CREEK									



7

BRIDGE NO. 100009

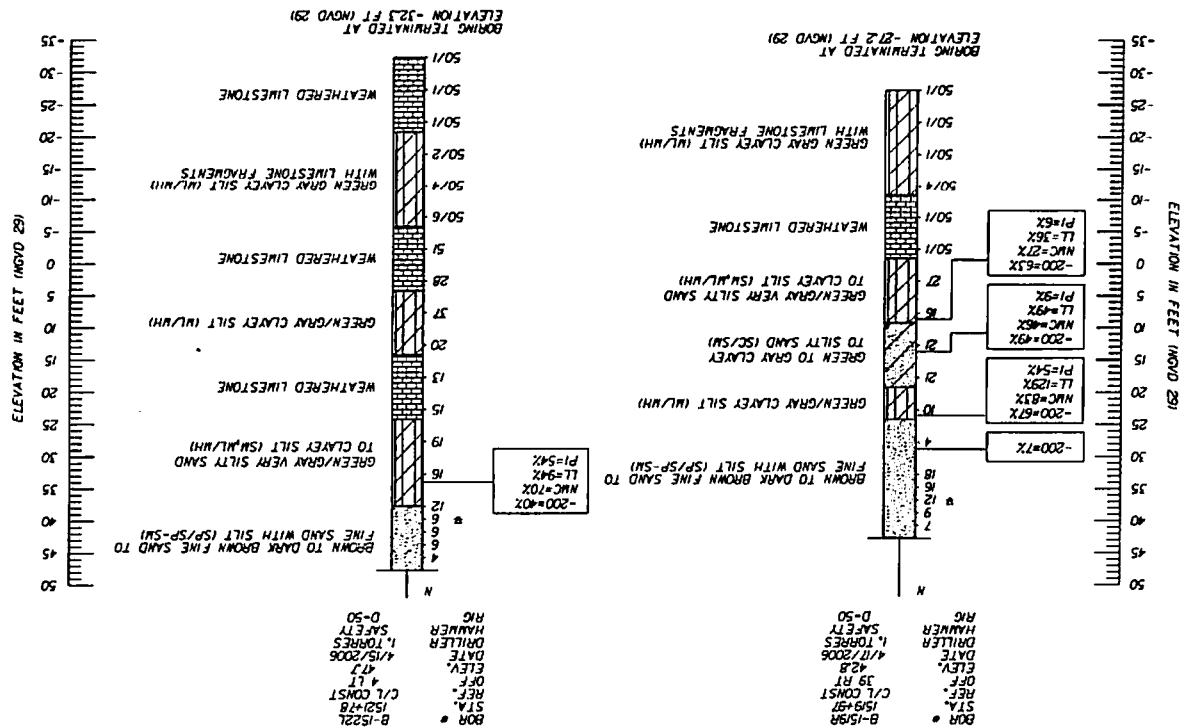
GRAVELLY MATERIALS - RELATIVE DENSITY	VERY LOOSE LOOSE MEDIUM DENSE VERY DENSE GREATER THAN 50
SILT AND CLAY CONSISTENCY	SPT BLOWS/FT. LESS THAN 4 5 to 10 11 to 30 31 to 50 GREATER THAN 50
VERY SOFT SOFT FIRM STIFF VERY STIFF HARD	LESS THAN 2 3 to 4 5 to 9 9 to 15 16 to 30 GREATER THAN 30

ENVIRONMENTAL CLASSIFICATION:
CONCRETE, MODERATELY AGGRESSIVE
150 < pH < 650
SUBSTRUCTURE
STEEL, SLIGHTLY AGGRESSIVE
160 < pH < 640
SUPERSTRUCTURE
SLIGHTLY AGGRESSIVE
SOIL RESULTS:
RESISTIVITY
26,000 OHM-CM
CHLORIDES
15 ppm
SULFATES
6.0 pH
WATER RESULTS:
RESISTIVITY
3,300 OHM-CM
CHLORIDES
25 ppm
SULFATES
6.0 pH
7.5

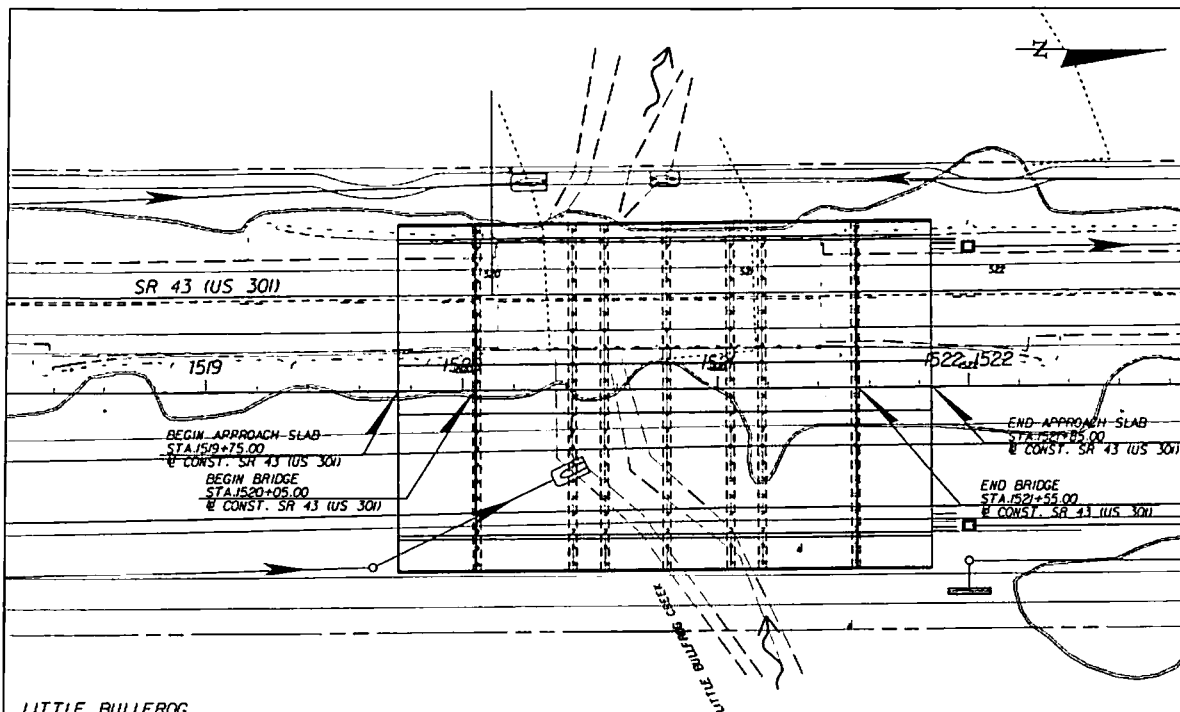
SP	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2480)	GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
$\frac{1}{2}$	GROUNDWATER LEVEL	
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED)	
-200	FINES PASSING THE #200 STANDARD SIEVE (%)	
LL	LIQUID LIMIT (%)	
PI	PLASTICITY INDEX (%)	
N/C	NATURAL MOISTURE CONTENT (%)	
50/4	NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION	
NOTE:	STATION, OFFSET AND ELEVATION PROVIDED BY HMR	
NCSD 29	NATIONAL GEODETIC VERTICAL DATUM OF 1929	
C/L CONST	CENTLINE OF CONSTRUCTION	

	BROWN TO DARK BROWN FINE SAND TO FINE SAND WITH SILT (SP/SP-SM)
	GREEN TO GRAY CLAYEY SILT (SC/SM)
	GREEN/GRAY VERY SILTY SAND TO CLAYEY SILT (SM/WH)
	WEATHERED LIMESTONE

LEGGEND



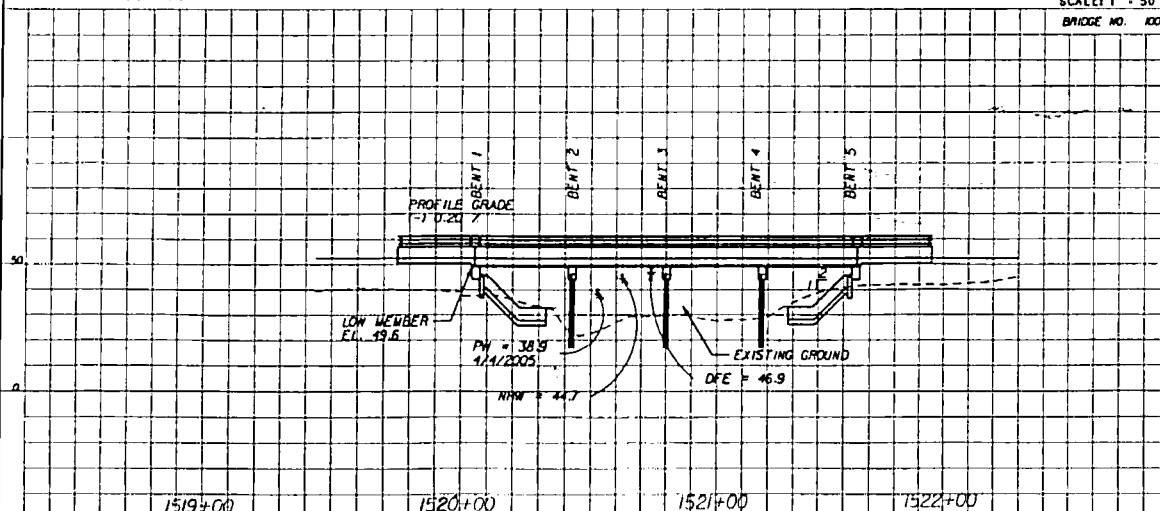
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LITTLE BULLFROG

SCALE: 1" = 50'

BRIDGE NO. 100001



REVISIONS			
DATE	BY	DESCRIPTION	DATE

HR

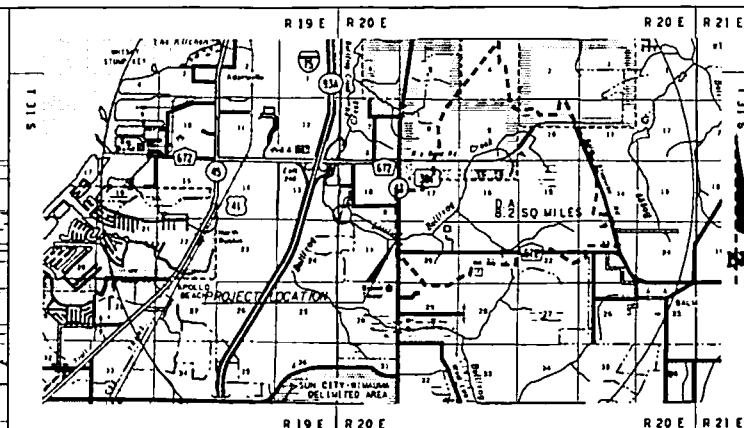
JOHN C. LINDSEY, P.E.
P.E. LICENSE NUMBER 4031
HR Engineering, Inc.
2000 N. 1st Street, Suite 250
Tampa, FL 33607-5750
CERTIFICATE OF AUTHORIZATION 423

STATES OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO. SR 43
COUNTY HILLSBOROUGH
FINANCIAL PROJECT ID 415489-1-52-01

BRIDGE HYDRAULIC
RECOMMENDATIONS

SHEET
NO. B2-2



REFERENCE	EXISTING STRUCTURES			PROPOSED STRUCTURE
	(1) PILE BENT	(2) (3) (4)		PILE BENT
FOUNDATION	44 FT			50 FT
OVERALL LENGTH	44 FT			50 FT
SPAN LENGTH	44 FT			50 FT
TYPE CONSTRUCTION	FLAT SLAB			PRESTRESSED SLAB
AREA OF OPENING @ D.F.	44			44
BRIDGE WIDTH	44			44
ELEV. LOW MEMBER	46.9			46.9

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 establish 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 assure 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.

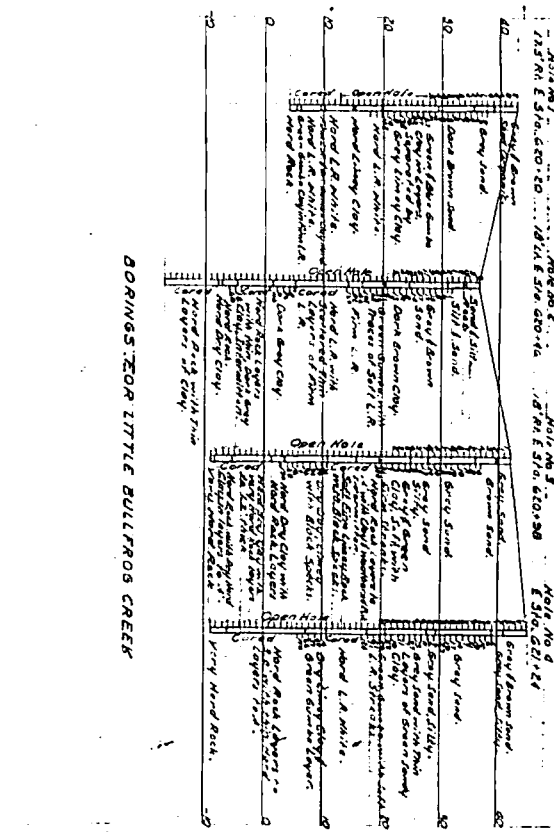
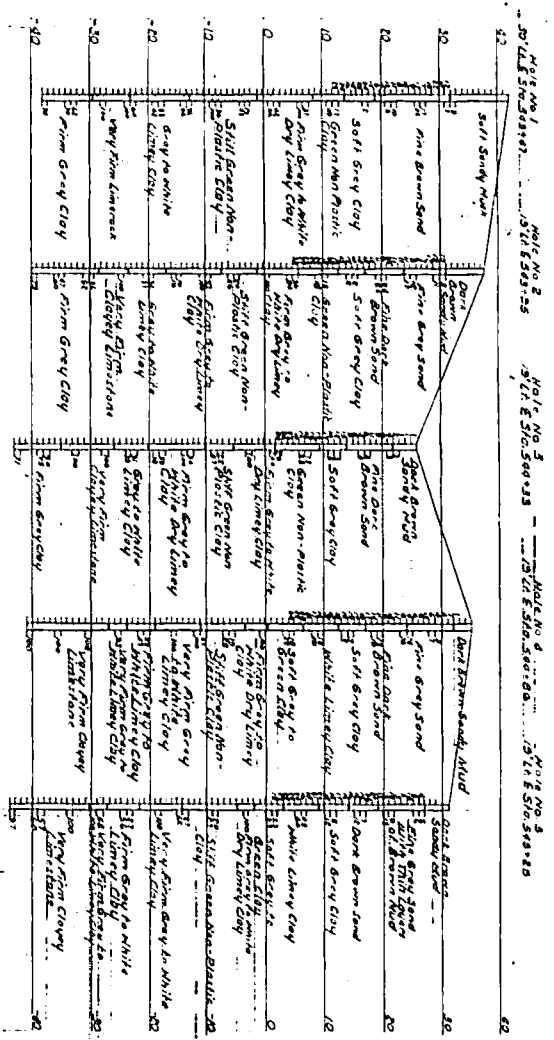
WATER SURFACE ELEVATIONS:		N.H.W. (100-yr)		N.H.W. (100-yr)	
		46.7	46.7	46.7	46.7
		N/A	N/A	N/A	N/A

FLOOD DATA:		MAX. EVENT OF RECORD		DESIGN FLOOD		BASE FLOOD		OVERTOPPING OF TO GREATEST FLOOD
STAGE ELEV. MOVD (ft)				46.9		46.9		0.0
DISCHARGE (cfs)				1,000		1,000		0.0
AVERAGE VELOCITY (ft/s)				1.0		1.0		0.0
EXCEEDANCE PROB. (%)				1.0		1.0		0.0
FREQUENCY (yr)				100		100		0.0

SCOUR PREDICTIONS FOR PROPOSED STRUCTURE DESCRIBED ABOVE:		TOTAL SCOUR ELEVATION		WORST CASE < 500 yr.	
PIER INFORMATION		LONG TERM SCOUR ELEV.		FREQ. (yr)	
NUMBERS		46.9		100	
SIZE AND TYPE					
RE. PILE BENT					

HYDRAULIC RECOMMENDATIONS		DESIGN FLOOD		BASE FLOOD	
1. BEGIN BRIDGE STATION		1520+00.00		1520+00.00	
2. CLEARANCE PROVIDED:		NAY: HORIZ. 46.5 VERT. 3.8		NAY: HORIZ. 46.5 VERT. 3.8	
3. MINIMUM CLEARANCE:		NAY: HORIZ. 46.5 VERT. 3.8		NAY: HORIZ. 46.5 VERT. 3.8	
4. ADJUSTMENTS:					
PUBBLE GRADE:		STANDARD		STANDARD	
SLOPE:		2.5		2.5	
BURIED OR NON-BURIED HORIZ. TOE:		BURIED		BURIED	
TOE HORIZ. DISTANCE:		40		40	
LIMIT OF PROTECTION:		40		40	
5. DECK DRAINAGE: DISCHARGE WILL BE COLLECTED OFF THE BRIDGE ENDS INTO ROADWAY INLETS.					

REMARKS:



BORINGS FOR BIG BULLFROG CREEK

BORINGS FOR LITTLE BULLFROG CREEK

Big Bullfrog Creek		Little Bullfrog Creek	
Coling	Spoon	Coling	Spoon
1.34"	1.4"	2.4"	1.4"
2.34"	2"	2.4"	2"
3.34"	3"	3.4"	3"
4.34"	4"	4.4"	4"
5.34"	5"	5.4"	5"
6.34"	6"	6.4"	6"
7.34"	7"	7.4"	7"
8.34"	8"	8.4"	8"
9.34"	9"	9.4"	9"
10.34"	10"	10.4"	10"
11.34"	11"	11.4"	11"
12.34"	12"	12.4"	12"

LABORING DATA

BORING DATA FOR LITTLE BULLFROG CREEK
 STATE ROAD DEPARTMENT OF FLORIDA
 STRUCTURES DIVISION
 BORING NO. 1
 DATE 7-1-63
 BY 7-1-63

BIE-17