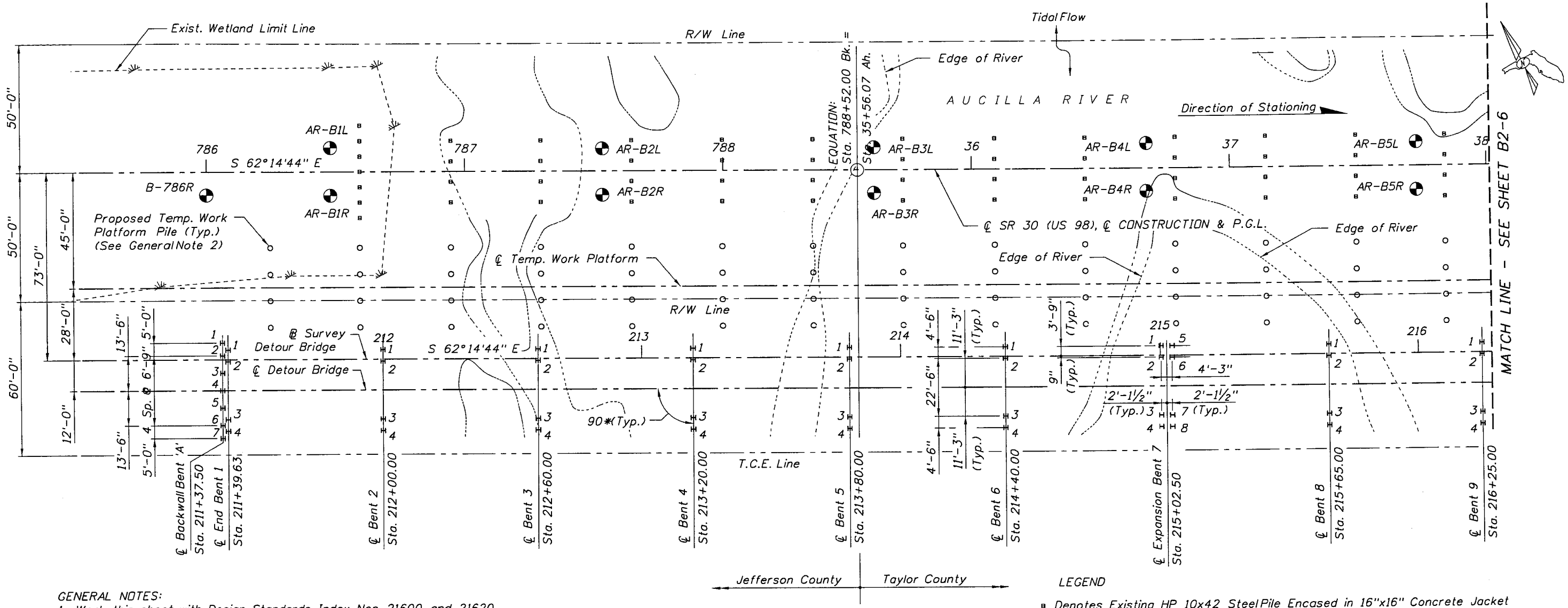

PART PLAN

GENERAL NOTES:

1. Work this sheet with Design Standards Index Nos. 21600 and 21620.
2. Steel piles for the temporary work platform are the maximum size and number permitted. Actual Number, pile size and spacing are to be determined by the Contractor.

PILE INSTALLATION DATA TABLE NOTES:

$$\frac{\text{Factored Design Load} + \text{Net Scour Resistance} + \text{Down Drag}}{\phi} \leq \text{Nominal Bearing Resistance}$$

TENSION RESISTANCE - The ultimate side friction capacity that must be obtained below the 100 year scour elevation to resist pullout of the pile (Specify only when design requires tension capacity).

TOTAL SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the scourable soil.

NET SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the soil from the required preformed or jetting elevation to the scour elevation.

100-YEAR SCOUR ELEVATION - Estimated elevation of scour due to the 100 year storm event.

LONG TERM SCOUR ELEVATION - Estimated elevation of scour used in design for extreme event loading.

LEGEND

- Denotes Existing HP 10x42 Steel Pile Encased in 16"x16" Concrete Jacket
- H Denotes HP 14x73 Steel Pile
- o Denotes 30" Dia. Steel Pipe Pile (See Note 2)
- Denotes Soil Boring

PILE INSTALLATION NOTES:

1. For Pile Installation Data Table, see Sheet No. B2-8.
2. At each Bent, pile driving is to commence at the center of the Bent and proceed outward.
3. Piles shall be driven to the required Nominal Bearing Resistance on Sheet No. B2-8 and the minimum penetration requirements below.
4. The hammer/driving system shall be in accordance with Section 455-5.2 of FDOT Specifications. During driving of the piles, the Department may periodically perform dynamic load tests to evaluate the Contractor's hammer/driving system.
5. Hard layers of limestone may be encountered at varying elevations. Driving of piles may be difficult. If minimum penetration requirements cannot be achieved, install piles in preformed holes as authorized by the Engineer. Preform hole depth a minimum of 5 feet from top of the rock surface. Install piles by driving a minimum of 3 feet below bottom of preformed hole to required capacity or refusal, whichever is less. Preformed holes shall be 20 in. diameter.
6. All piling shall be driven plumb.
7. No pile driving will be permitted on Sunday.
8. The Engineer will determine the blow count criteria for the temporary detour bridge piles based on a WEAP analysis of the Contractor's pile driving equipment.

BRIDGE NO. 380095

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GEORGE C. PATTON, P.E.
P.E. License No: 45966
E. C. DRIVER & ASSOCIATES, INC.
500 N. Westshore Blvd. Suite 500
Tampa, Florida 33609
Certificate of Authorization No. 3838

DRAWN BY: SUC 06/10
CHECKED BY: KSS 10/10
DESIGNED BY: SUC 03/10
CHECKED BY: KSS 03/10

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	TAYLOR	210873-2-52-01

SHEET TITLE: DETOUR BRIDGE FOUNDATION LAYOUT (1 OF 3)

PROJECT NAME: SR 30 (US 98) OVER AUCILLA RIVER BRIDGE REPLACEMENT

REF. DWG. NO.

SHEET NO. B2-5

E.C. DRIVER 3/1/2011 11:36:45 AM F:\Projects\21087325201\struct\B2FoundLay01.dgn