

ROAD COUNTY SHEET OF SECTION NO. 03-18101-03-BR SMITHTON ST.CLAIR 5 OF 13 FHWA REG.NO. ILLINOIS PROJ BROS-163(28) FEDERAL AID PROJECT CONTRACT #97306

## GENERAL NOTES

THE CONTRACTOR SHALL DRIVE TEST PILE(S) TO 110% OF THE NOMINAL REQUIRED BEARING SPECIFIED IN PRODUCTION LOCATIONS AT THE SUBSTRUCTURES SPECIFIED AS APPROVED

SPECIFIED IN PRODUCTION LOCATIONS AT THE SUBSTRUCTURES SPECIFIED AS APPR
BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.
REFER TO THE SPECIAL PROVISIONS FOR BORING LOG INFORMATION.
A CORROSION INHIBITOR SHALL BE USED IN THE CONCRETE FOR THE PRECAST,
PRESTRESSED CONCRETE DECK BEAMS, ACCORDING TO ARTICLE 1020.05(b) OF THE
STANDARD SPECIFICATIONS.

RAILING SHALL BE IN ACCORDANCE WITH SECTION 509 OF THE STANDARD SPECIFICATIONS, EXCEPT AS NOTED ON THE PLANS, AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR STEEL RAILING, TYPE S1 WHICH PRICE SHALL INCLUDE THE COST OF FURNISHING AND ERECTING.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60 (IL MODIFIED). SEE SPECIAL PROVISIONS. THIS NOTE SUPERSEDES NOTES ON THE ABUTMENT SHEETS.

THE COST OF STRUCTURE EXCAVATION SHALL BE CONSIDERED INCLUDED IN THE COST OF CONCRETE STRUCTURES.

CONCRETE STRUCTURES.
IN ADDITION TO ALL OTHER REQUIREMENTS OF SECTION 512 OF THE STANDARD
SPECIFICATIONS, SPLICES FOR STEEL H PILES SHALL DEVELOP FULL CAPACITY OF THE
STEEL'S CROSS SECTIONAL AREA OF THE PILE FOR TENSION, SHEAR AND BENDING FORCES.
ONE APPROVED METHOD OF ACHIEVING THIS REQUIREMENT IS FULL PENETRATION BUTT
WELDING OF THE ENTIRE CROSS SECTION. OTHER TYPES OF SPLICES MEETING THE FULL
CAPACITY REQUIREMENT MAY BE ALLOWED SUBJECT TO THE APPROVAL OF THE ENGINEER.
ANY PROPOSAL BY THE CONTRACTOR TO USE AN ALTERNATE SPLICE METHOD MUST INCLUDE
ADEQUATE DOCUMENTATION DEMONSTRATING THAT THE FULL TENSION, SHEAR AND BENDING
CAPACITIES WILL BE MET. APPROPRIATE WELDER QUALIFICATIONS WILL BE REQUIRED
FOR THE POSITIONS AND PROCESSES USED IN SPLICING ALL PILES. NONDESTRUCTIVE
TESTING OF COMPLETED WELDS WILL BE LIMITED TO VISUAL INSPECTION.

## TOTAL BILL OF MATERIALS (STRUCTURE)

ITEM	UNIT	SUPER			TOTAL
			ABUTS.	PIERS	
CHANNEL EXCAVATION	CU YD				195
STONE DUMPED RIPRAP, CLASS A4	SQ YD				216
FILTER FABRIC	SQ YD				216
HOT-MIX ASPHALT SUFACE COURSE,					
MIX "C", N70	TON	21.9			21.9
CONCRETE STRUCTURES	CU YD		24.4		24.4
PRECAST PRESTRESSED CONCRETE DECK					
BEAMS (27" DEPTH)	SQ FT	1680			1680
REINFORCEMENT BARS, EPOXY COATED	POUND		2960		2960
STEEL RAILING, TYPE S1	FOOT	120			120
FURNISHING STEEL PILES HP 10x42	FOOT		561		561
DRIVING PILES	FOOT		561		561
TEST PILE STEEL HP 10x42	EACH		1		1
CONCRETE ENCASEMENT	CU YD		2.6		2.6
WATERPROOFING MEMBRANE SYSTEM	SQ YD	186.7			186.7
PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	360			360
REMOVAL OF EXISTING STRUCTURES	EACH				1
PILE SHOES	EACH		10		10
NAME PLATES	EACH				1

THE STANDARD DETAIL SHEETS FOR THIS STRUCTURE WERE ASSEMBLED BY ME OR PERSONS UNDER MY DIRECT SUPERVISION

. 2007

DARRELL I. CATES, P.E. COUNTY ENGINEER ICENSE NO. 62-042908

LICENSE EXPIRATION DATE: NOVEMBER 30, 2007



## GENERAL PLAN & ELEVATION

T.R. 197 KINNEY BRANCH

SECTION 03-18101-03-BR ST. CLAIR COUNTY STATION 121+83.50 S.N. 082-4151