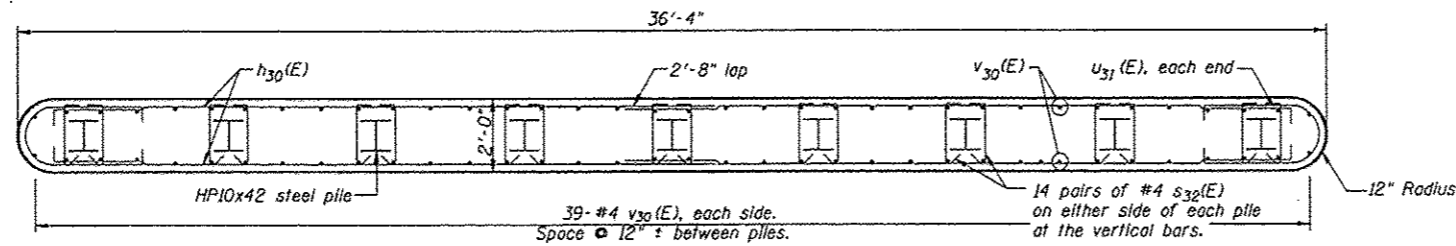
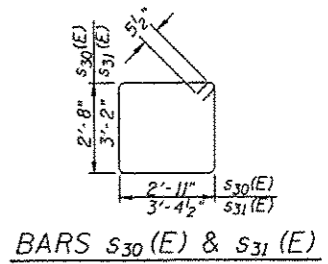


ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
FAS452	*	FULTON	26	15
FED. ROAD DIST. NO. 7		FULLWORK	FED. AID PROJECT	

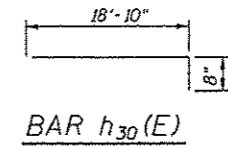
\* 09-00130-05-BR



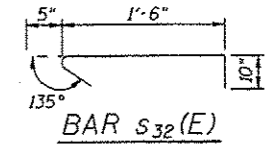
SECTION E-E



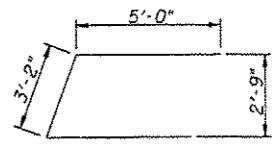
BARS s30(E) & s31(E)



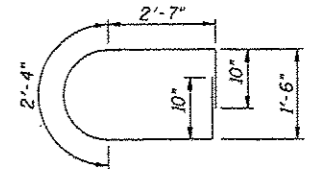
BAR h30(E)



BAR s32(E)



BAR u30(E)



BAR u31(E)

**BILL OF MATERIAL - 2 PIERS**

Bar	No.	Size	Length	Shape
h30(E)	112	# 5	19'-6"	—
v30(E)	40	# 6	20'-6"	—
s30(E)	68	# 5	12'-1"	□
s31(E)	8	# 5	14'-0"	□
s32(E)	504	# 4	2'-9"	U
u30(E)	12	# 5	13'-2"	U
u31(E)	56	# 4	9'-2"	U
v30(E)	148	# 4	15'-0"	—
Concrete Structures			Cu. Yds.	100.6
Reinforcement Bars, Epoxy Coated			Lbs.	7400
Test Pile, HP10x42			Each	2
Furnishing Steel Piles HP10x42			Foot	560
Driving Piles			Foot	560
Pile Shoes			Each	18
Seal Coat Concrete			Cu. Yds.	115
Cofferdam Excavation			Cu. Yds.	265
Cofferdam (Type 2) (Location-1)			Each	1
Cofferdam (Type 2) (Location-2)			Each	1

Reinforcement bars designated (E) shall be epoxy coated.

**PILE DATA**

Location: Piers  
 Pile Type and Size: Steel HP 10x42  
 Nominal Required Bearing: 335 kips  
 Factored Resistance Available: 184.5 kips  
 Estimated Pile Length: 35 ft.  
 No. of Production Piles: 8 • North Pier  
 8 • South Pier  
 No. of Test Piles: 1 • North Pier  
 1 • South Pier

Note: The Steel H-piles shall be according to AASHTO M270 Grade 50.

DSGN	J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	J.A. Fraenhoffer	NO.	DATE	REVISION	BY

**FRAUENHOFFER & ASSOCIATES**  
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PIER DETAILS (SHEET 2 OF 2)		SHEET 15
FAS 452 (CH2) OVER LASWELL BRANCH OF PUT CREEK		DWG NO. 9029PIER.dgn
SEC 08-00130-05-BR		DATE DEC 2012
FULTON COUNTY		PROJ NO. 9029