

**APPROACH PILE DATA**

LOCATION	ABUTMENTS
NO. REQUIRED	9 10 9 9
EST. LENGTH	27 26 27 26

DATE	NO.	BY	CHKD.	APP'D.	SHEET NO. 10
1-18	0707-608	CGK	EG	10	SHEETS

**TOTAL BILL OF MATERIAL - SECTION 0707-0000**

ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL
CLASS 2 CONCRETE	CU YD	84.8	715.2	1,507.1
PROTECTIVE COAT	SQ YD	3,307	1.50	3,307.0
REINFORCING & EMBEDDING STRUCTURAL STEEL	TON	706.511	104.613	104,613.0
REINFORCEMENT BARS	TON	222,405	328.990	328,990.0
PURCHASING CHOLESTEROL PILES 20.1	LINE FT			
TO 30 FEET	LINE FT		250	250.0
DRIVING TIMBER PILES	LINE FT		100	100.0
PURCHASING STEEL PILES 18" DIA	LINE FT		5,160	5,160.0
TEST PILE STEEL 18" DIA	LINE FT		2	2.0
DRIVING STEEL PILES	LINE FT		3,160	3,160.0
WAVE PLATES	LINE FT		1,407	1,407.0
SLOPEWALL 4" HIGH	LINE FT		1,407	1,407.0
ALUMINUM HANDRAIL	LINE FT	1,143	1.00	1,143.0
CONCRETE IN TRENCH, 3" DIA.	LINE FT		80	80.0
STEEL	LINE FT		1,000	1,000.0
CONCRETE MORTAR, 2" ASPHALT	LINE FT	3,000		3,000.0
CONCRETE IN CONCRETE, 1 1/2" DIA.	LINE FT	36		36.0
CALVANIZED STEEL	LINE FT		64	64.0
CONCRETE, 2" CALVANIZED STEEL	LINE FT		40	40.0
TRENCH AND BACKFILL	EACH	4		4.0
EAST IRON JUNCTION BOX	EACH	6		6.0
CASE IRON JUNCTION BOX	EACH	6		6.0
CLASS A EXCAVATION	CU YD	912		912.0
CONCRETE MORTAR, 2" DIA.	LINE FT	122		122.0
REINFORCING STEEL	LINE FT	122		122.0

**SECTION A-A & SECTION B-B**  
SECTIONS ARE SIMILAR EXCEPT AS NOTED OTHERWISE  
SCALE: 1/2" = 1'-0"

**SECTION D-D**  
SCALE: 1/2" = 1'-0"

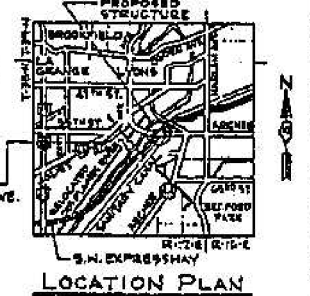
**DETAIL 'A' (AS SHOWN)**  
**DETAIL 'B' (SIMILAR, OPP. HAND)**

**STATIONS & ELEVATIONS OF P.T.'S**

ABUT.	STATION	ELEVATION
ABUT. (A)	517+58.55	601.91
ABUT. (B)	517+08.15	602.72
ABUT. (C)	518+17.32	602.10
ABUT. (D)	518+16.02	601.61

**DESIGN LOADINGS:**  
A.A.S.H.O. H20-516 WITH FUTURE WEARING SURFACE 1 1/2" THICK

**DESIGN STRESSES:**  
FC = 1400 P.S.I. SUPERSTRUCTURE AND SUB-STRUCTURE WITHOUT EARTH PRESSURE.  
FC = 1000 P.S.I. SUBSTRUCTURE WITH EARTH PRESSURE.  
FS = 20,000 P.S.I. REINFORCEMENT BARS.  
FS = 20,000 P.S.I. STRUCTURAL STEEL, A-36  
V = 75 P.S.I. SHEAR IN PIER FOOTINGS.  
MAX. ALLOWED DEFLECTION  $\leq \frac{1}{1000}$  (NON-COMPOSITE) AND  $\frac{1}{2000}$  (COMPOSITE).



**SECTION C-C**  
(TYPICAL SECTION AT TOP OF SLOPEWALL BETWEEN BRIDGES).  
SCALE: 3/4" = 1'-0"  
DESIGNED BY J.A. KASNER  
DRAWN BY J.A. KASNER  
CHECKED BY J.A. KASNER  
IN CHARGE J.A. KASNER  
APPROVED J.A. KASNER



F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	109
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				

USER NAME = ksnider	DESIGNED - KMS	REVISED -
CHECKED - JHG	REVISIONS -	
DRAWN - KMS	REVISED -	
CHECKED - JHG	REVISED -	