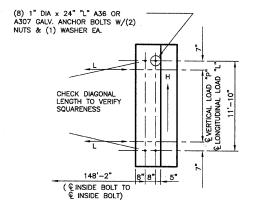


## ANCHOR BOLT ELEVATION



#### ANCHOR BOLT PLAN

NOTE: ALL DIMENSIONS AND VALUES ARE SUBJECT TO CHANGE AFTER FINAL DESIGN

BRIDGE LIFTING WEIGHT: 85,000 LBS

#### **DESIGN LOADINGS**

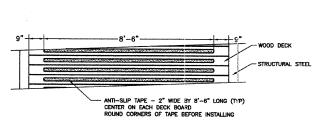
BRIDGE LENGTH =150.00'
BRIDGE WIDTH =10.00'
LIVE LOAD =90 psf
VEHICLE LOAD =10,000 lb
WIND LOAD =35 psf

#### **REACTIONS**

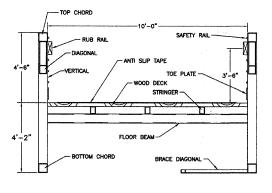
COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED

GOVERNING BUILDING	CODES	AS REC	UIRED	
BRIDGE REACTIONS + DOWNWARD LOAD - UPWARD LOAD				
	P (LBS)	H (LBS)	L (LBS)	
DEAD LOAD	21,250			
UNIFORM LIVE LOAD	24,375			
VEHICLE LOAD	5,000			
WIND UPLIFT 20 PSF	-12,750			
WIND	± 12,460	23,625		
THERMAL			3,190	

"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)
"H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)
"L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)



ANTI SLIP TAPE DETAIL

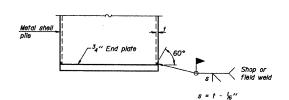


BRIDGE CROSS-SECTION

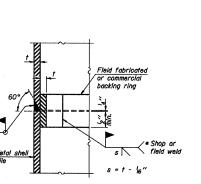


#### METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t		Inside volume (yd.³ /ft.)
PP12	0.179''	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361

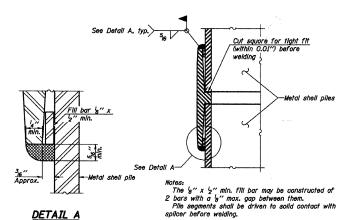


END PLATE ATTACHMENT

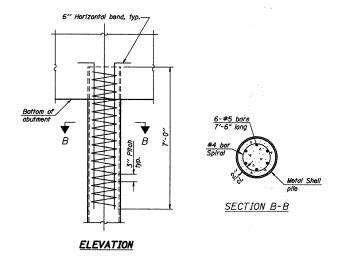


COMPLETE PENETRATION WELD SPLICE

Field fabricated backing ring may be made from pile shell
by removing segment to allow reducing circumference and
vertically rejoin with partial joint penetration weld.



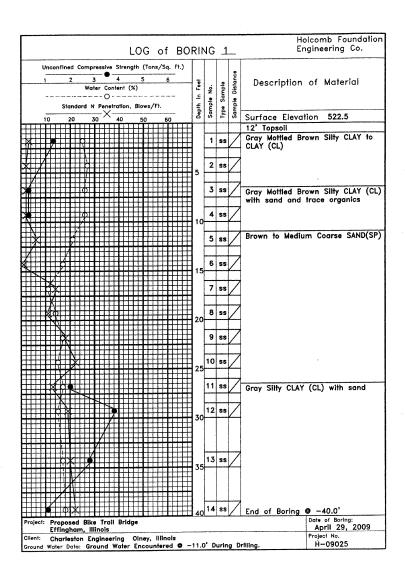
WELDED COMMERCIAL SPLICE



METAL SHELL REINFORCEMENT AT ABUTMENTS

### METAL SHELL PILE DETAILS

Note: The metal shell piles shall be according to ASTM A 25:2 Grade 3.



SECTION 10-00091-00-BT

CONTRACT NO. 95646

TOTAL SHEETS

EFFINGHAM

# CHARLESTON ENGINEERING, INC.

CONSULTING ENGINEERS
105 NORTH KITCHELL
P.O. BOX 397
OUNEY, ILLINOIS 62450
(618) 382-0763
UNDIS DEPARTMENT OF PROFESSIONAL RESULATION REGISTRATION.

BRIDGE DETAILS

PEDESTRIAN BRIDGE OVER LITTLE WABASH RIVER

> SEC. 10-00091-00-BT EFFINGHAM COUNTY STATION 35B+82.66