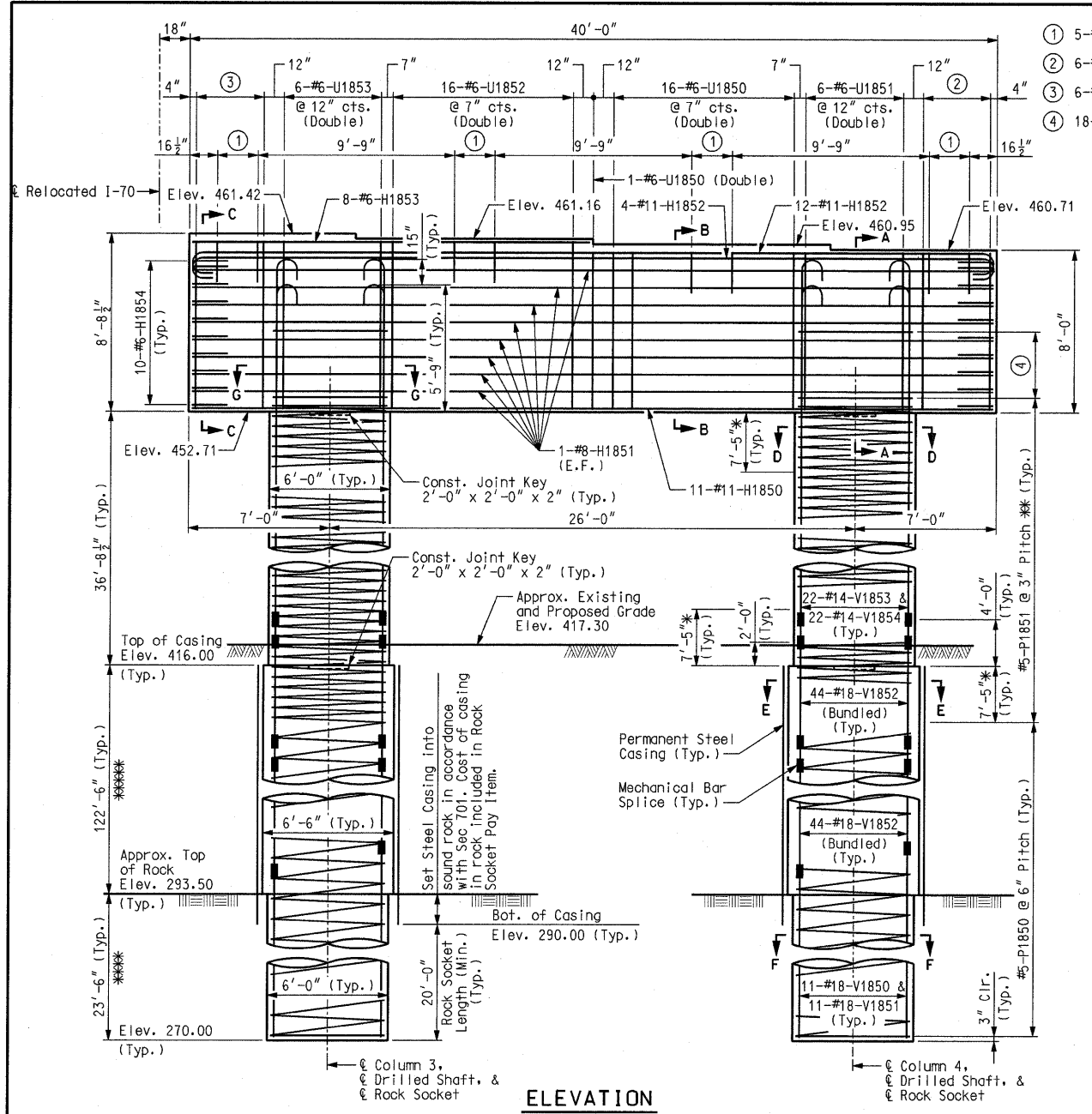
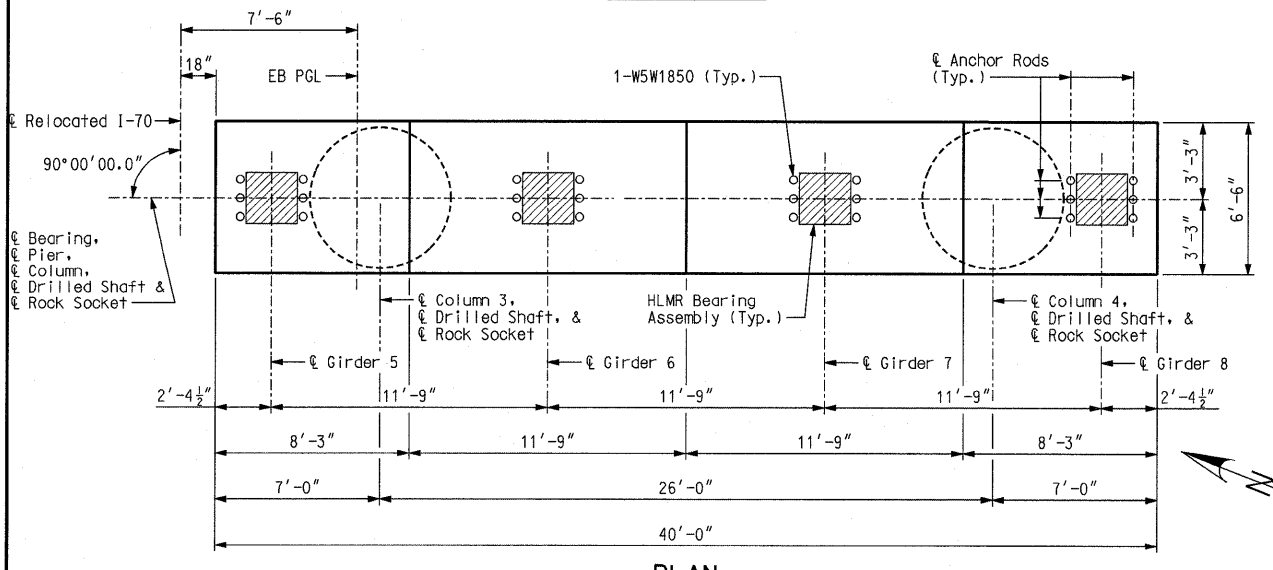


- ① 5-#4-U1854 @ 6" cts.
- ② 6-#6-U1850 @ 8" cts. (Double)
- ③ 6-#6-U1852 @ 8" cts. (Double)
- ④ 18-#5-P1852 @ 3" cts. (Typ.) \*\*\*

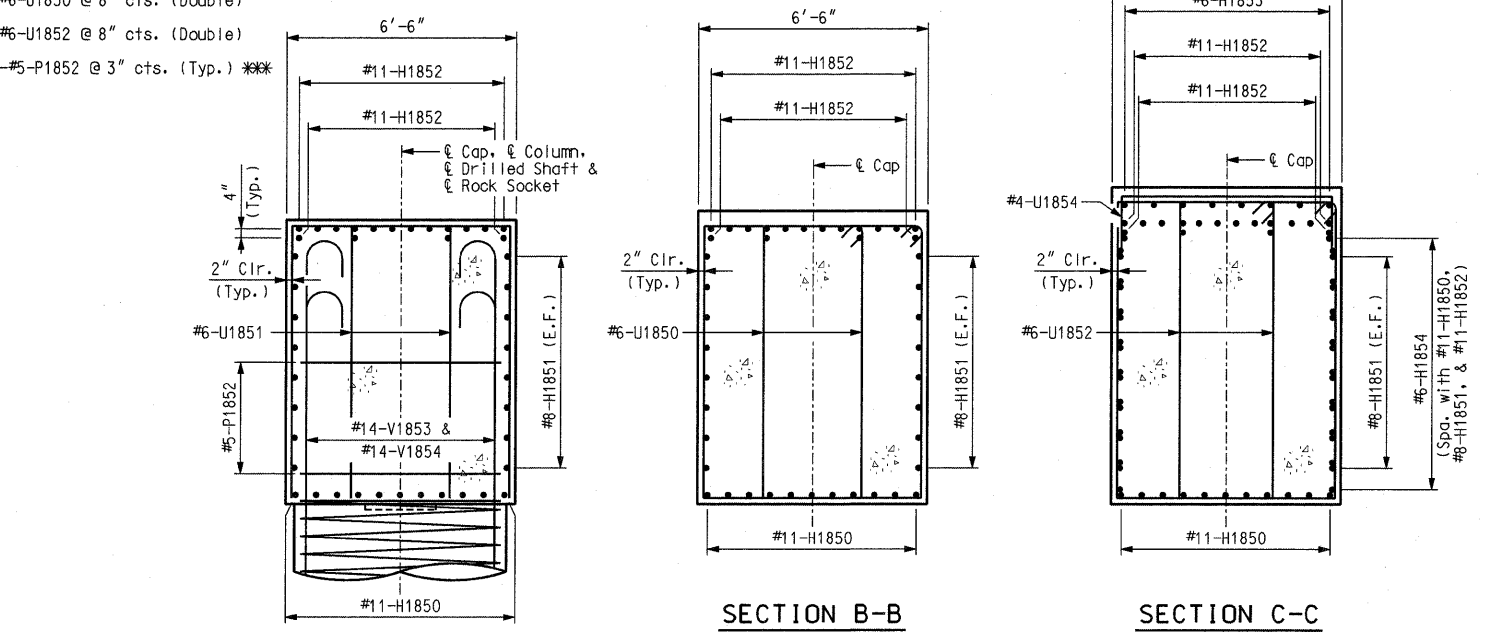


**ELEVATION**



**PLAN**

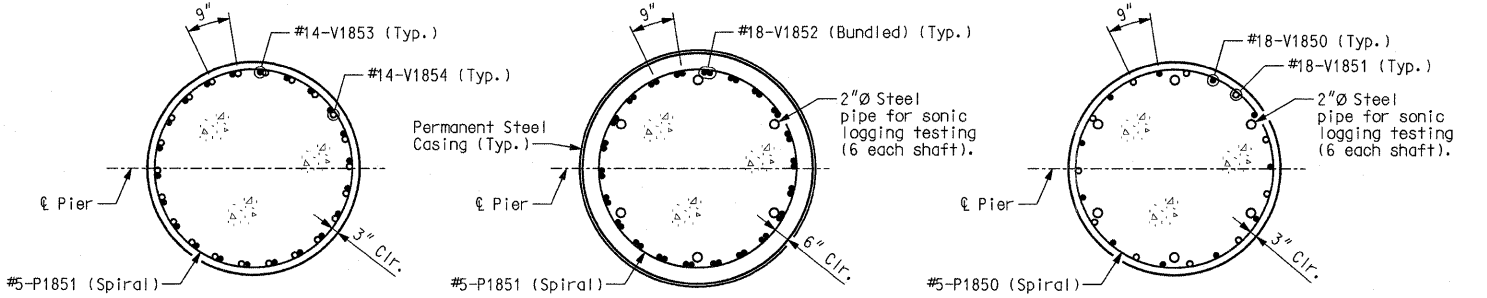
Note: This drawing is not to scale. Follow dimensions.



**SECTION A-A**

**SECTION B-B**

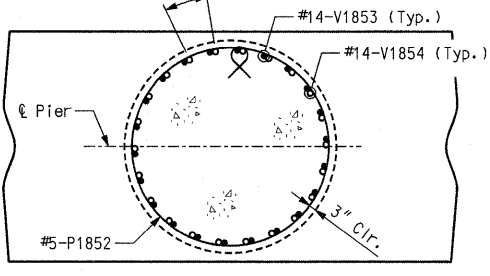
**SECTION C-C**



**SECTION D-D**

**SECTION E-E**

**SECTION F-F**



**SECTION G-G**  
(Beam Cap reinforcement not shown)

SUBSTRUCTURE QUANTITY TABLE FOR PIER 18 EB		
Item	Quantity	
Drilled Shafts (6 ft. 6 in. Dia.)	linear foot	245.0
Rock Sockets (6 ft. 0 in. Dia.)	linear foot	47.0
Supplementary Television Camera Inspection	each	1
Foundation Inspection Holes	linear foot	67.0
Sonic Logging Testing	each	2
Class B Concrete (Substructure)	cu. yard	157.3
Reinforcing Steel (Bridges)	pound	215,640
Mechanical Bar Splice	each	220
Non-Special Waste Disposal	cu. yard	26.2

Note: These quantities are included in the estimated quantities table on Sheet No. 7.

Sheet No. 26 of 152

Notes:  
 An additional 4 feet has been added to #5-P1850, #18-V1850 and #18-V1851 lengths for possible change in drilled shaft or rock socket depth. This excess length shall be cut off or included in the reinforcement lap if not required.  
 Sonic logging testing shall be performed on all drilled shafts and rock sockets.  
 All reinforcing bars in the tops of substructure beams or caps shall be spaced to clear anchor rod wells for bearings by at least 1/2".  
 The thickness of steel casing shall meet all the requirements of Sec 701 with minimum thickness being 3/8 inch. Thicker casing may be required for installation.  
 For details of HLMR Bearing Assembly, see Sheet No. 43.  
 For Anchor Rod Well Details and Anchor Rod Setting Plan, see Sheet No. 47.  
 For details of seismic stirrup bars, see Sheet No. 7.  
 Lapping of spiral reinforcement in this region not permitted.  
 \*\* Continue spiral bars to the bottom of the beam cap stirrup reinforcing bar.  
 \*\*\* Splice locations shall be staggered.  
 Anchorage of spiral reinforcement shall be provided by 1-1/2 extra turns of spiral bar at each end of spiral unit.  
 \*\*\*\* Pay Items Rock Socket (6 ft. 0 in. Dia.).  
 \*\*\*\*\* Pay Items Drilled Shaft (6 ft. 6 in. Dia.).

**PIER 18 EB**

Detailed JUL 2009  
 Checked JUL 2009

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jloiff	
PLOT SCALE = *SCALE*	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE  
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 MISSOURI HIGHWAYS  
 AND TRANSPORTATION COMMISSION

**HNTB**  
 715 KIRK DRIVE  
 KANSAS CITY, MO 64105  
 TELEPHONE (816) 472-1201  
 CERTIFICATE OF AUTHORITY  
 NO. 001270

**CMT**  
 CRAWFORD, MURPHY & TILLY, INC.  
 2750 WEST WASHINGTON STREET  
 SPRINGFIELD, IL 62702  
 TELEPHONE (217) 787-8050  
 ENGINEERING CORPORATION - 000631