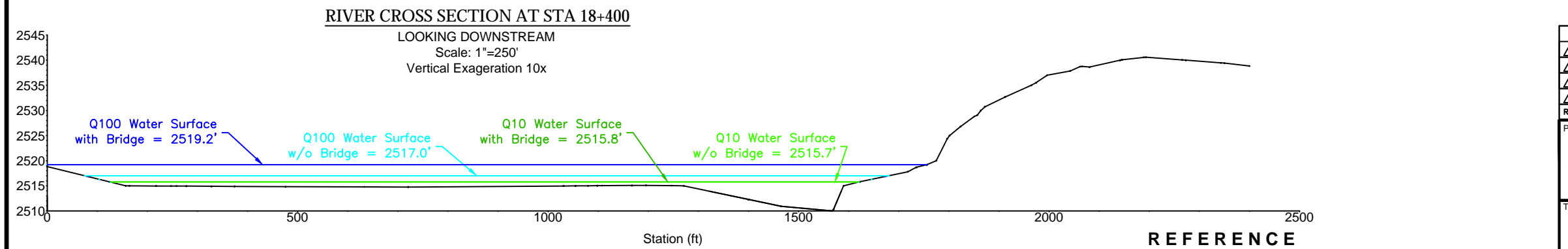
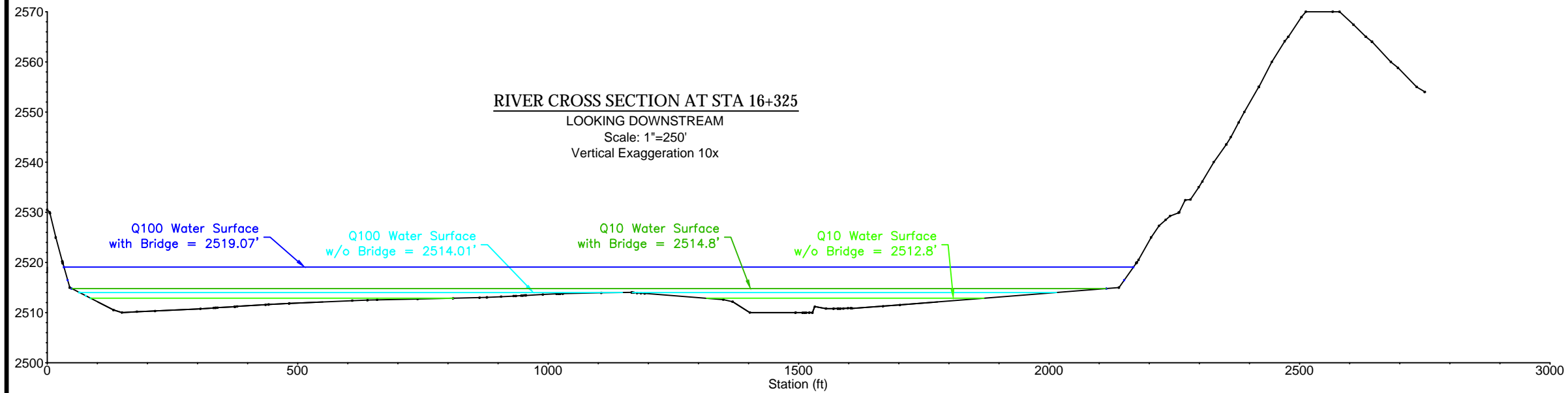


- LEGEND**
- FLOODPLAIN FEMA 100 YEAR
 - HEC-RAS CROSS SECTION
 - STREAM ALIGNMENT
 - BRIDGE LOCATION
 - TOPOGRAPHY (2 FT. INTERVALS)




REFERENCE
T139N R98W
Permit Boundary: IEI, 11/12/2009.
Mine Pit Boundary: Norwest, 01/20/2010.
Township, Range and Section: ND HUB, 6/20/2006.
Drainage Ways: Digitized from aerial photography, 6/19/2007.
Contours: Generated from aerial photography stereo pairs, 6/19/2007.
Projection: StatePlane, North Dakota South, NAD27, Feet.

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RWV
△						
△						
△	07/12/10	CWB	COMPLETENESS COMMENT	JLS	CWB	JRH

PROJECT

**SOUTH HEART COAL LLC
SOUTH HEART LIGNITE MINE
SOUTH HEART, NORTH DAKOTA**



TITLE

**SOUTH BRANCH HEART RIVER
HEC-RAS ANALYSIS AND
CROSS SECTIONS**

PROJECT No.			FILE No.		
DESIGN	APO	2/15/10	SCALE	AS SHOWN	REV. 1
CADD	JLS	2/15/10	Figure 3.5-13		
CHECK	JRH	2/15/10			
REVIEW	JRH	2/15/10			

