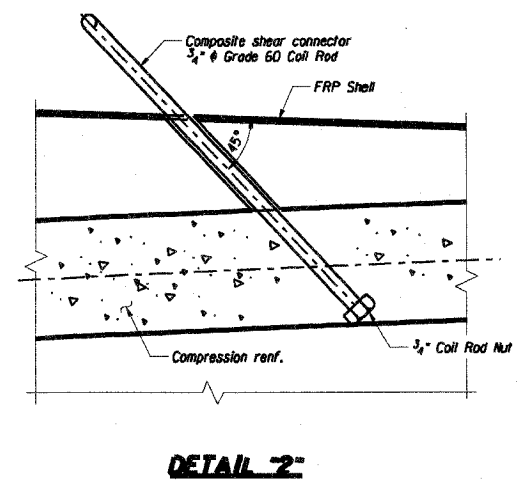
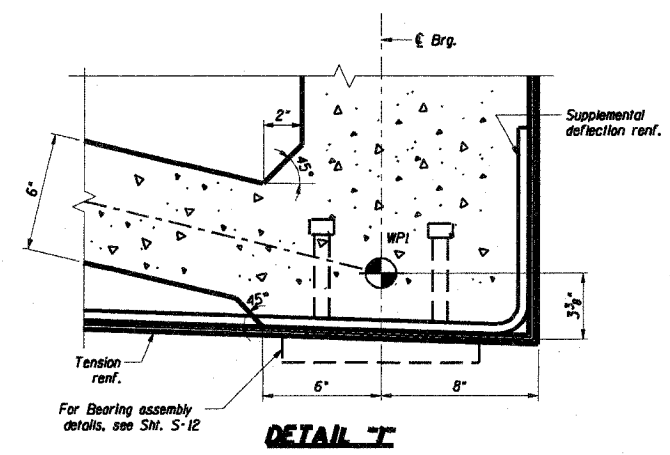
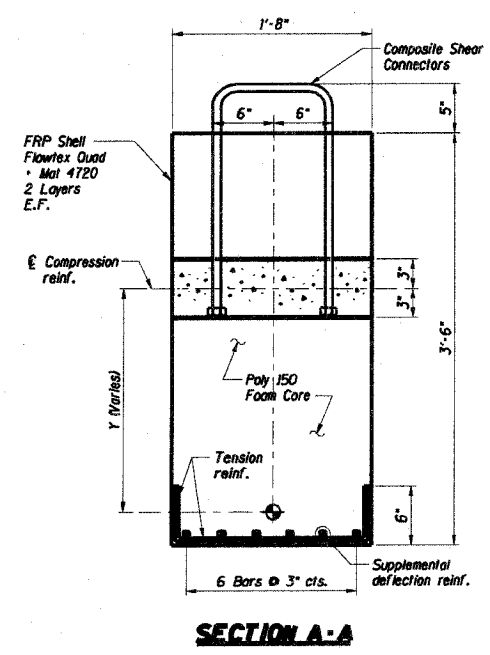
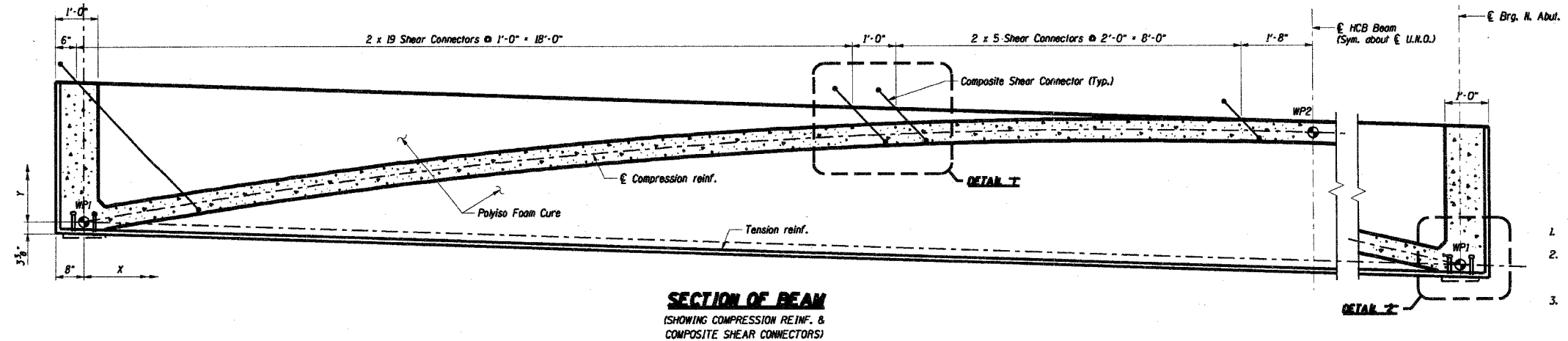
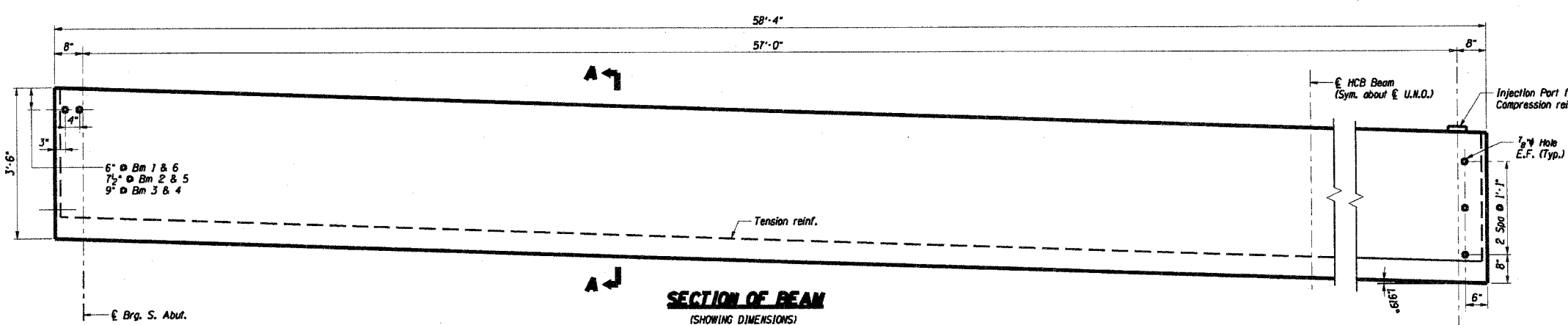


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	64	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
02-11106-01-BR		CONTRACT NO. 83949		

ARCH GEOMETRY	
2' IN.	7' IN.
0	0
34.2	6.77
68.4	12.82
102.6	18.16
136.8	22.79
171.0	26.71
205.0	29.91
239.4	32.40
273.6	34.18
307.8	35.25
342.0	35.61



COMPOSITE SHEAR CONNECTOR

BILL OF MATERIAL

Item	Unit	Qty
Erecting Hybrid-Composite Beams - 42"	L.S.	1

1. Work this sheet with the Framing Plan.
2. Hybrid-Composite Beams shall be fabricated and erected under separate contracts and shall be paid for according to the Special Provisions Furnishing Hybrid-Composite Beams and Erecting Hybrid-Composite Beams.
3. Composite Shear Connectors shall be furnished by the Fabrication Contractor and installed by the Erection Contractor as part of the erection contract.
4. Elastomeric bearings shall be furnished and installed by the Erection Contractor as part of the erection contract.
5. The concrete compression reinforcement in the HCB's shall be furnished and installed by the Erection Contractor. The compression reinforcement will not be paid for separately, but shall be included in the cost of Erecting Hybrid-Composite Beams.
6. Compression reinforcement in the HCB shall be Self-Consolidating Concrete, $f_c = 6,000$ psi.
7. Tension reinforcement in the HCB shall be Hardwire Steel Reinforcement, 3 x 2 High Density Tape.
8. Supplemental deflection reinforcement may be AASHTO M270 Grade 50 or ASTM A706 Grade 60 and shall be zinc-coated (galvanized) in accordance with ASTM A767.
9. The FRP Shell laminate shall be a glass reinforced, vinyl ester polymer conforming to the requirement of the Special Provisions for Furnishing Hybrid-Composite Beams.
10. See Sheet 5-07 for Reinforcement Steel in diaphragms.
11. Weight of FRP Shell without compression reinforcement is approximately 3,300 lbs.

SHT. 5-11 OF 28

REVISIONS	
NAME	DATE

LOCKPORT TOWNSHIP HIGHWAY DEPARTMENT
TR216A HIGH ROAD OVER LONG RUN CREEK
SECTION 02-11106-01-BR

**42" HYBRID-COMPOSITE BEAM
ELEVATION AND DETAILS**

SCALE: DATE: 9-07-2007 DRAWN BY: HBJ CHECKED BY: JRH

TENG

BONDHILL
 9-07-2007, 02:03:39
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