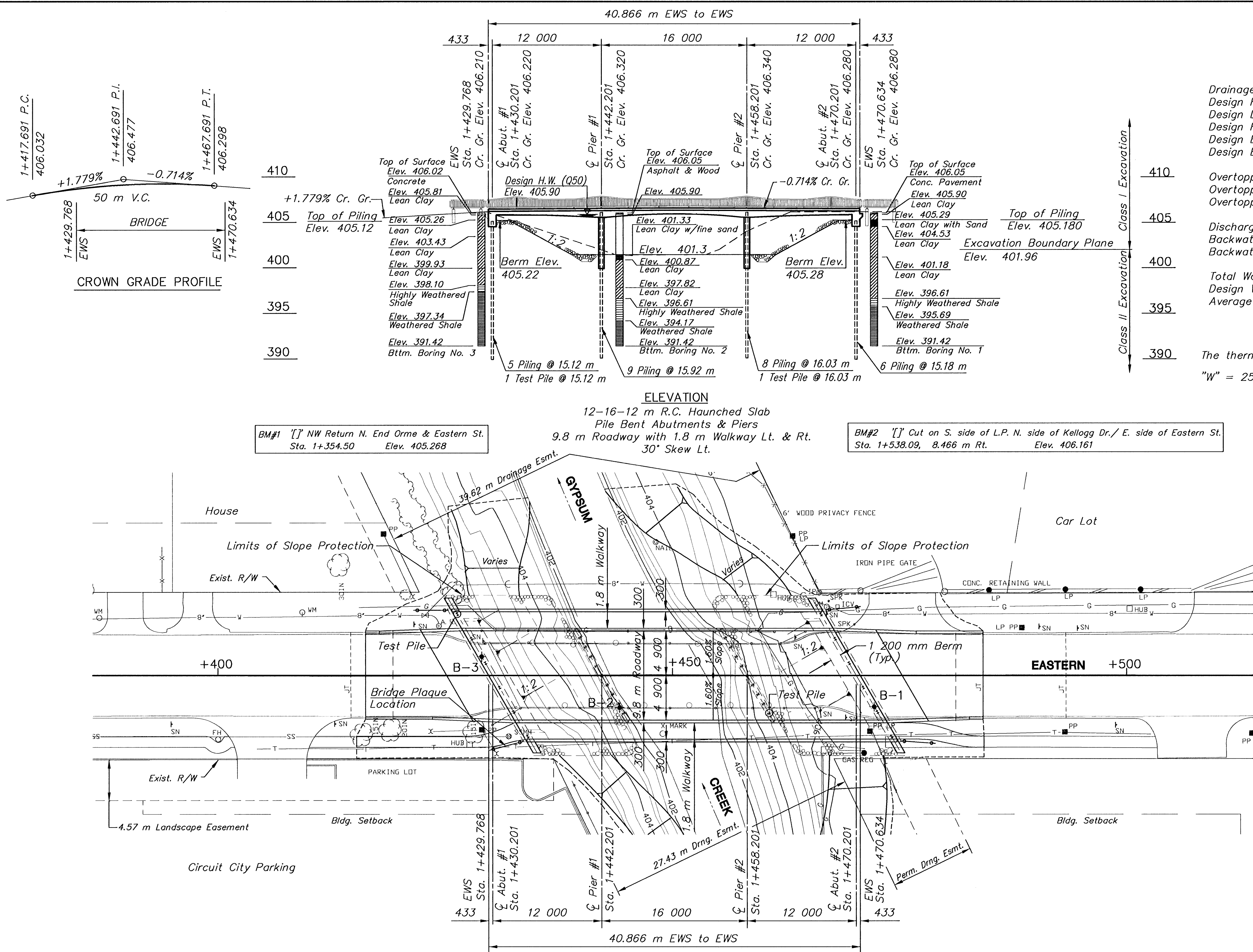


DATE	BY
REFERENCES NOTED	
REFERENCES CHECKED	



FHWA REG NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 N-0088-01	1999	10	38

DRAINAGE DATA

Drainage Area	22.5	km ²
Design Frequency	50	years
Design Discharge (Q 50)	145.8	m ³ /s
Design Highwater Elevation	405.9	
Design Backwater	0.1	m
Design Backwater Elevation	405.0	
Overtopping Elevation (Sta. 1+365)	405.25	
Overtopping Discharge	160	m ³ /s
Overtopping Frequency	65	years
Discharge at Q 100	173.0	m ³ /s
Backwater at Q 100	0.51	m
Backwater Elevation at Q 100	406.3	
Total Waterway Provided	105.2	m ²
Design Waterway Provided	98.1	m ²
Average Design Velocity (Q 50)	1.37	m/s

The thermal movement at the abutment is ± 5 mm.

"W" = 25 mm

SCALE: 1:200

2					
1					
NO.	DATE	REVISIONS			BY APP'D
KANSAS DEPARTMENT OF TRANSPORTATION					
BR. NO. 530400870GC1020			STA. 1+450.20		
CONSTRUCTION LAYOUT					
(Eastern over Gypsum Creek)					
PROJ. NO. 87 N-0088-01			SEDGWICK CO.		
FHWA APPROVAL			APP'D	11-19-98	
DESIGNED	KJS, PAF	DETAILED	DPG, MLW	QUANTITIES	
DESIGN CK.	MDK	DETAIL CK.	MDK	QUAN. CK.	RJW
			CADD	CADD CK.	CEH