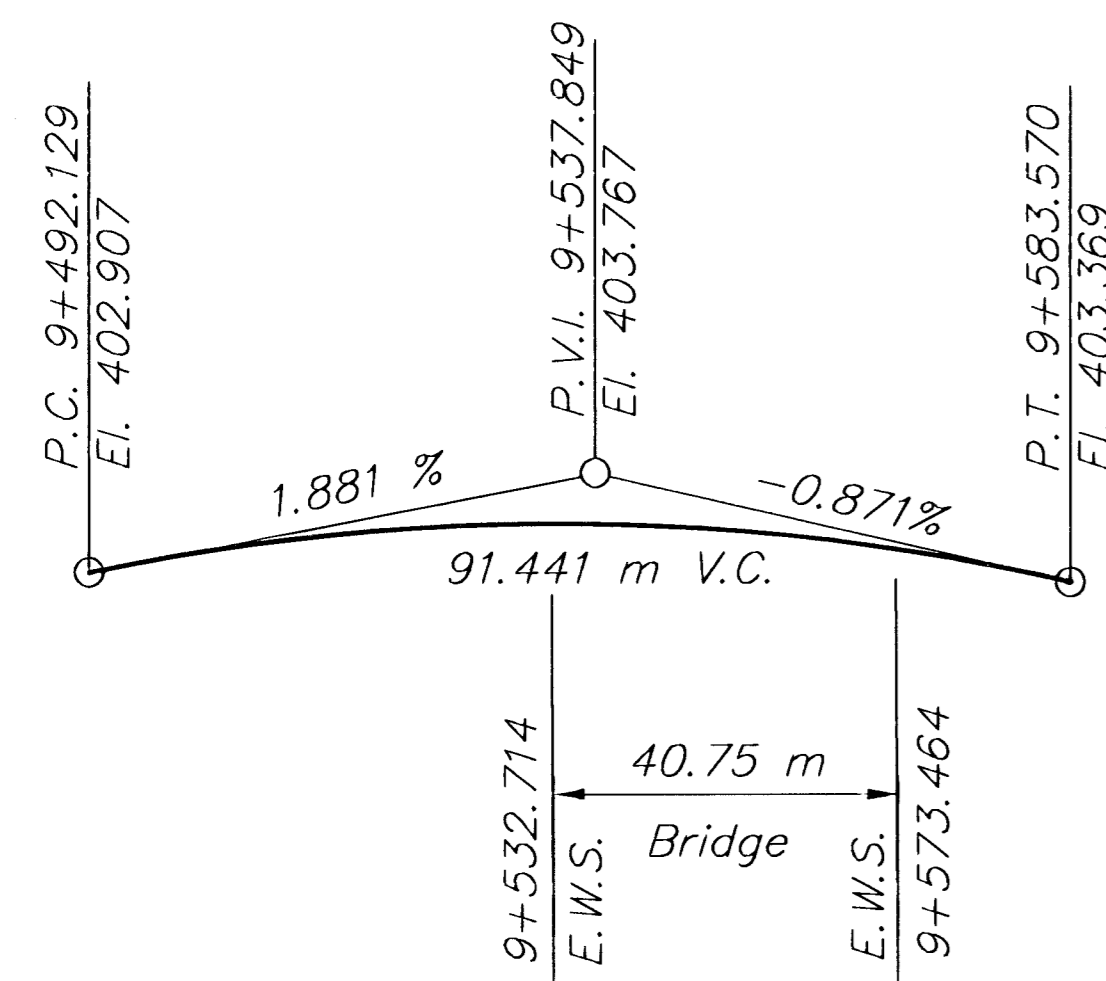


FHWA REG NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	Kansas	87N-0195-01	2001	30	127

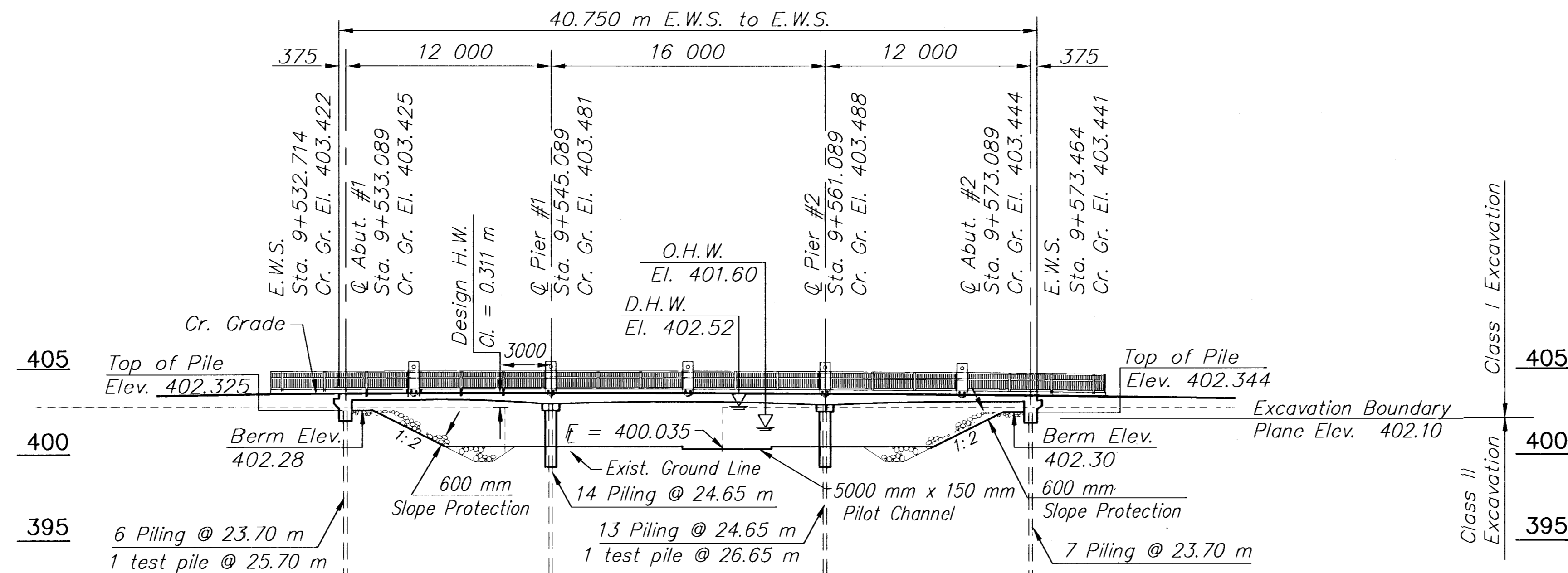
**DRAINAGE DATA**

Drainage Area	17.10 km <sup>2</sup>
Design Frequency	50 Yr.
Design Discharge (Q50)	81 m <sup>3</sup> /s
Design Velocity @ Q50	1.16 m/s
Design High Water Elevation	402.520
Design Backwater	0.19 m
Design Backwater Elevation	402.52
<b>Overtopping Elevation (Sta. 9+452) 402.538</b>	
Overtopping Discharge	84 m <sup>3</sup> /s
Overtopping Frequency	58 Yr.
<b>Discharge at Q100</b>	
Velocity @ Q100	98.8 m <sup>3</sup> /s
Backwater @ Q100	1.3 m/s
Backwater Elevation @ Q100	0.23 m
Backwater Elevation @ Q100	402.64
<b>Historic Highwater Elevation</b>	
Ordinary Highwater Elevation	403.16
Total Waterway Provided	401.60
Design Waterway Provided	87.3 m <sup>2</sup>
Design Waterway Provided	67.3 m <sup>2</sup>

The thermal movement at the abutment is ± 5 mm.  
"W" = 25 mm



**CROWN GRADE PROFILE**

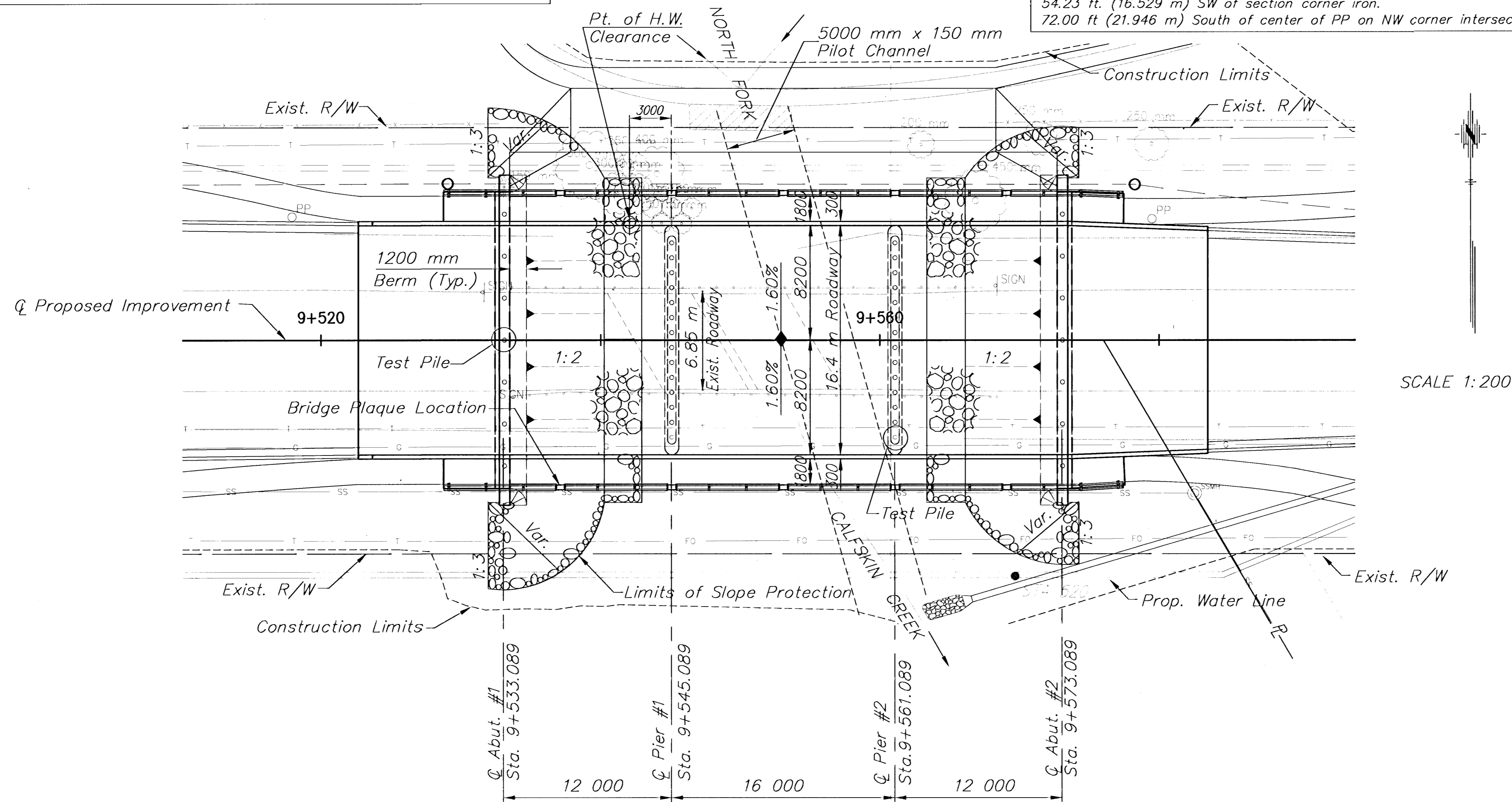


**ELEVATION**

BM #1 Breezy Point Circle and Maple  
COW Bench Mark. NW corner hubguard, west side of Breezy Point Circle City 135.61 ft. (41.242 m)  
0.3 miles (0.486 km) west of 119th St.  
100.00 ft. (30.480 m) +/- north of center line of Maple MSL 1322.71 ft. (403.162 m)

12-16-12 m R.C. Haunched Slab  
Pile Bent Abutments & Piers  
16.4 m Roadway with 1.8 m Walkway Lt. & Rt.

BM #2 119th St. West and Maple  
COW Bench Mark. SW corner of intersection. City 141.97 ft. (43.272 m)  
42.50 ft. (12.924 m) South of center line.  
32.70 ft. (9.967 m) West of center line. MSL 1329.37 ft (405.192 m)  
54.23 ft. (16.529 m) SW of section corner iron.  
72.00 ft. (21.946 m) South of center of PP on NW corner intersection.



**PLAN**

SCALE 1:200

**SRB** 924 NORTH MAIN 316-284-8008  
WICHITA, KANSAS 67203 FAX 284-4621  
**SAVOY, RUGGLES & BOHM, P. A.**  
ENGINEERING & SURVEYING

**MKEC**  
ENGINEERING CONSULTANTS  
411 N. WEBB ROAD  
WICHITA, KS. 67208  
316-684-9600

**MAPLE STREET BRIDGE  
(OVER CALFSKIN CREEK)**  
PROJECT NAME

**CONSTRUCTION LAYOUT**  
SHEET TITLE

DESIGN BY: **KJS** DRAWN BY: **DPG** CHECKED BY: **MDK**  
DATE: **NOVEMBER 2001** DRAWING NAME: **00142LAY** SHEET / OF: **30 / 127**

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