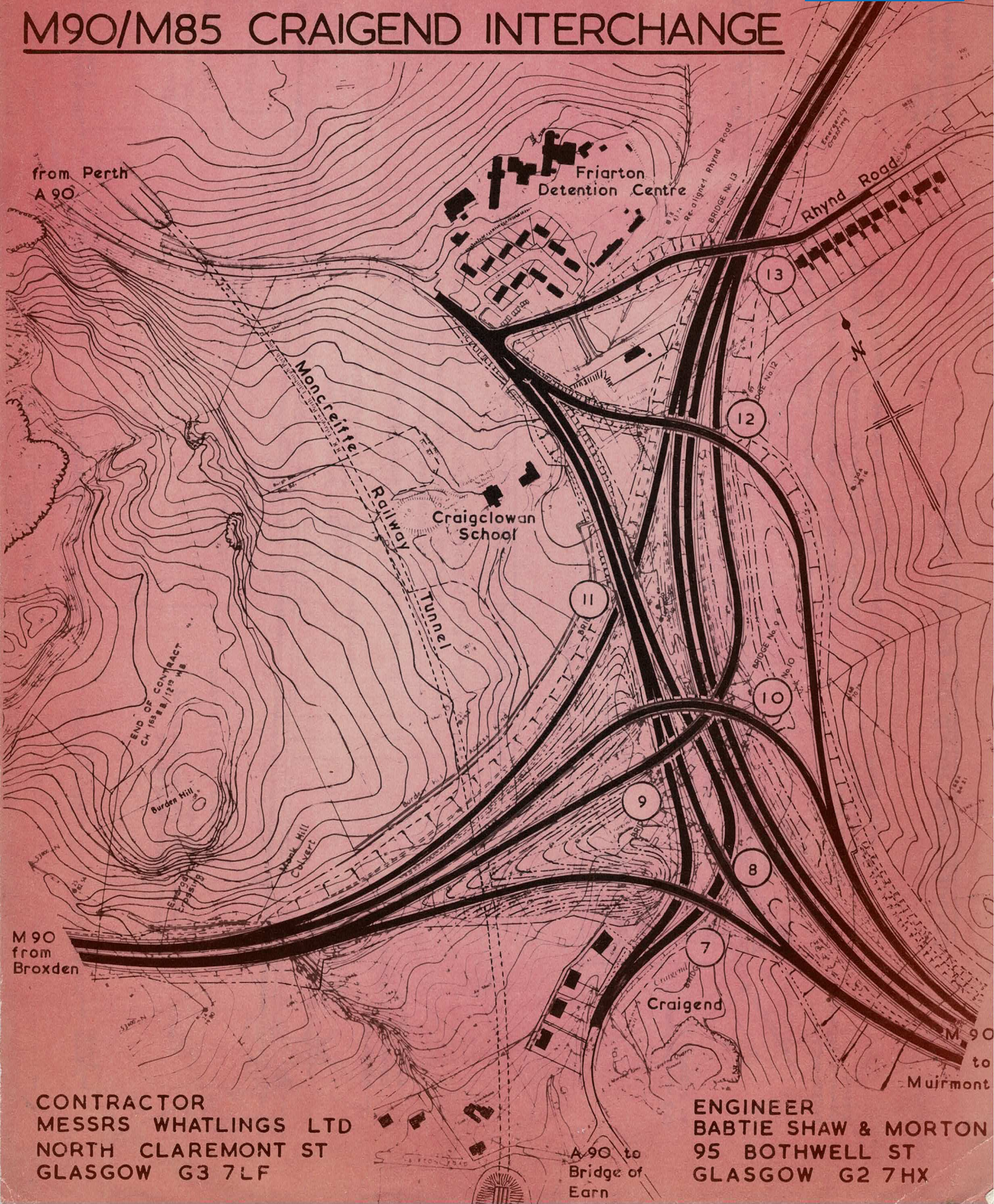


SCOTTISH DEVELOPMENT DEPARTMENT

ROADS DIVISION

M90 MOTORWAY

M90/M85 CRAIGEND INTERCHANGE

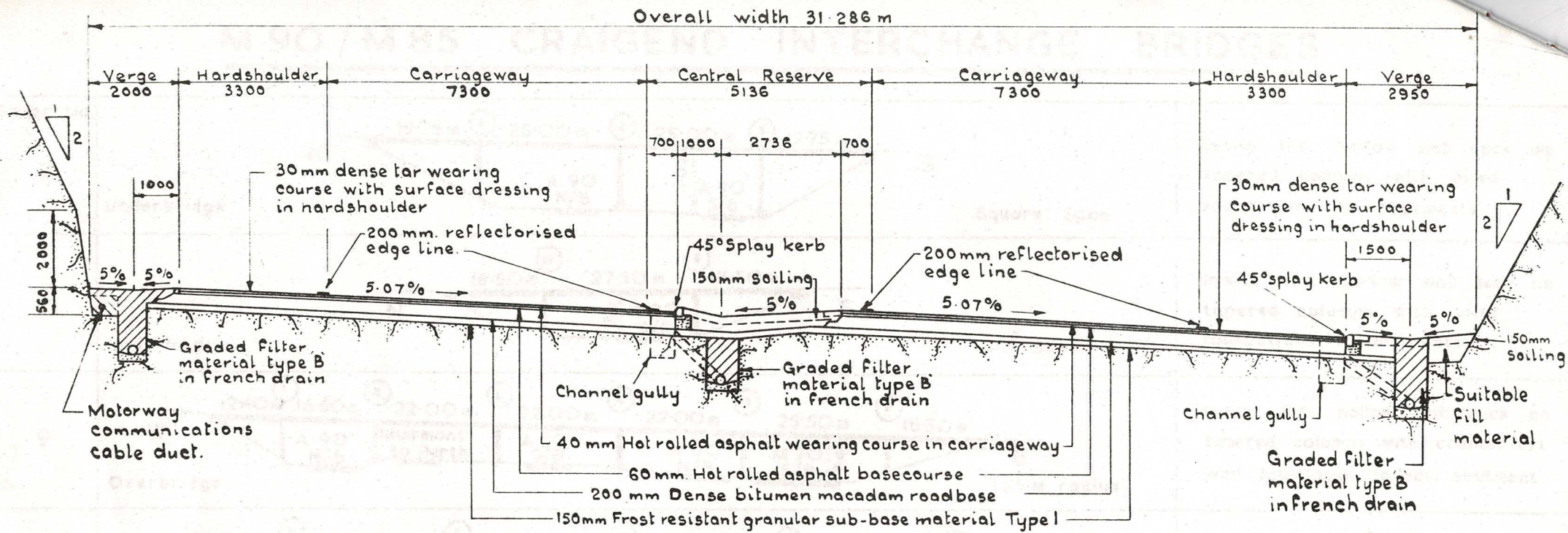


CONTRACTOR  
MESSRS WHATLINGS LTD  
NORTH CLAREMONT ST  
GLASGOW G3 7LF

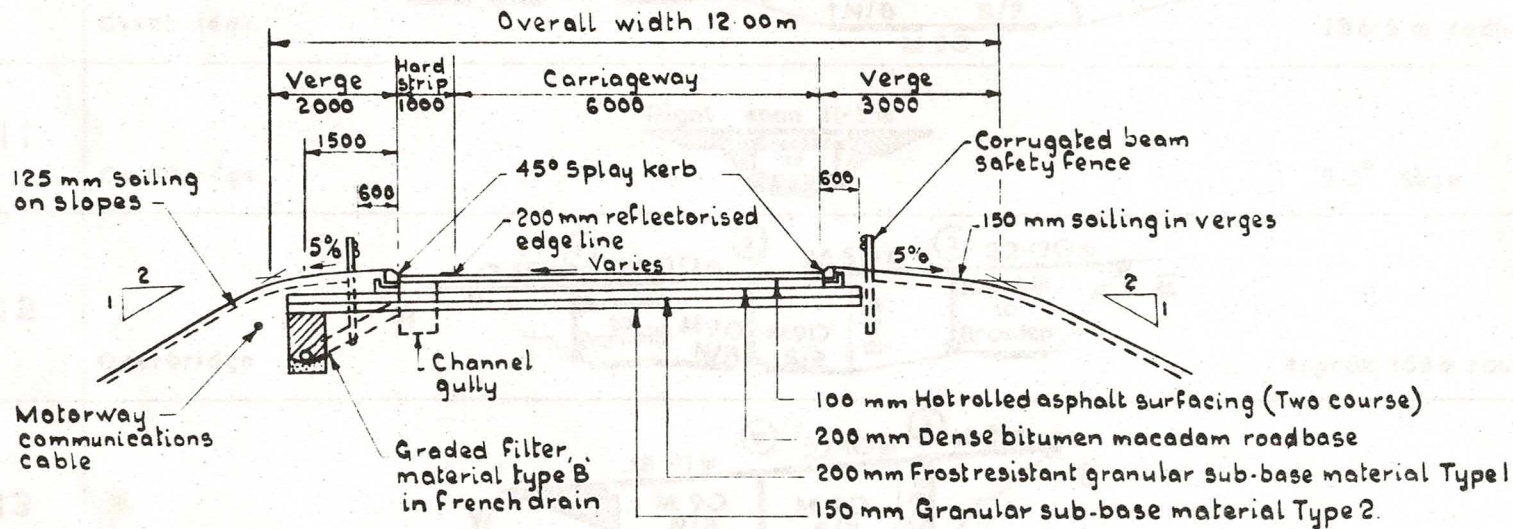
ENGINEER  
BABBIE SHAW & MORTON  
95 BOTHWELL ST  
GLASGOW G2 7HX

A90 to  
Bridge of  
Earn





**MOTORWAY IN ROCK CUTTING (SUPERELEVATED)**



**TYPICAL CROSS SECTIONS**  
SCALE: 1:125

**CONNECTING ROAD ON EMBANKMENT**

Note:  
Dimensions in millimetres unless otherwise stated.



# M 90 / M 85 CRAIGEND INTERCHANGE BRIDGES

7		In-situ R.C. hollow slab deck on tapered columns with piled foundations to abutments.
8		In-situ R.C. hollow slab deck on tapered columns with piled foundations to abutments.
9		In-situ R.C. hollow slab deck on tapered columns with counterfort wall foundation to West abutment.
10		In-situ R.C. hollow slab deck on tapered columns with counterfort wall foundations to abutments.
11		In-situ R.C. slab deck between abutments.
12		In-situ R.C. hollow slab deck on tapered columns.
13		In-situ R.C. slab deck on tapered columns.

Note :- Skew angles and spans are approximate



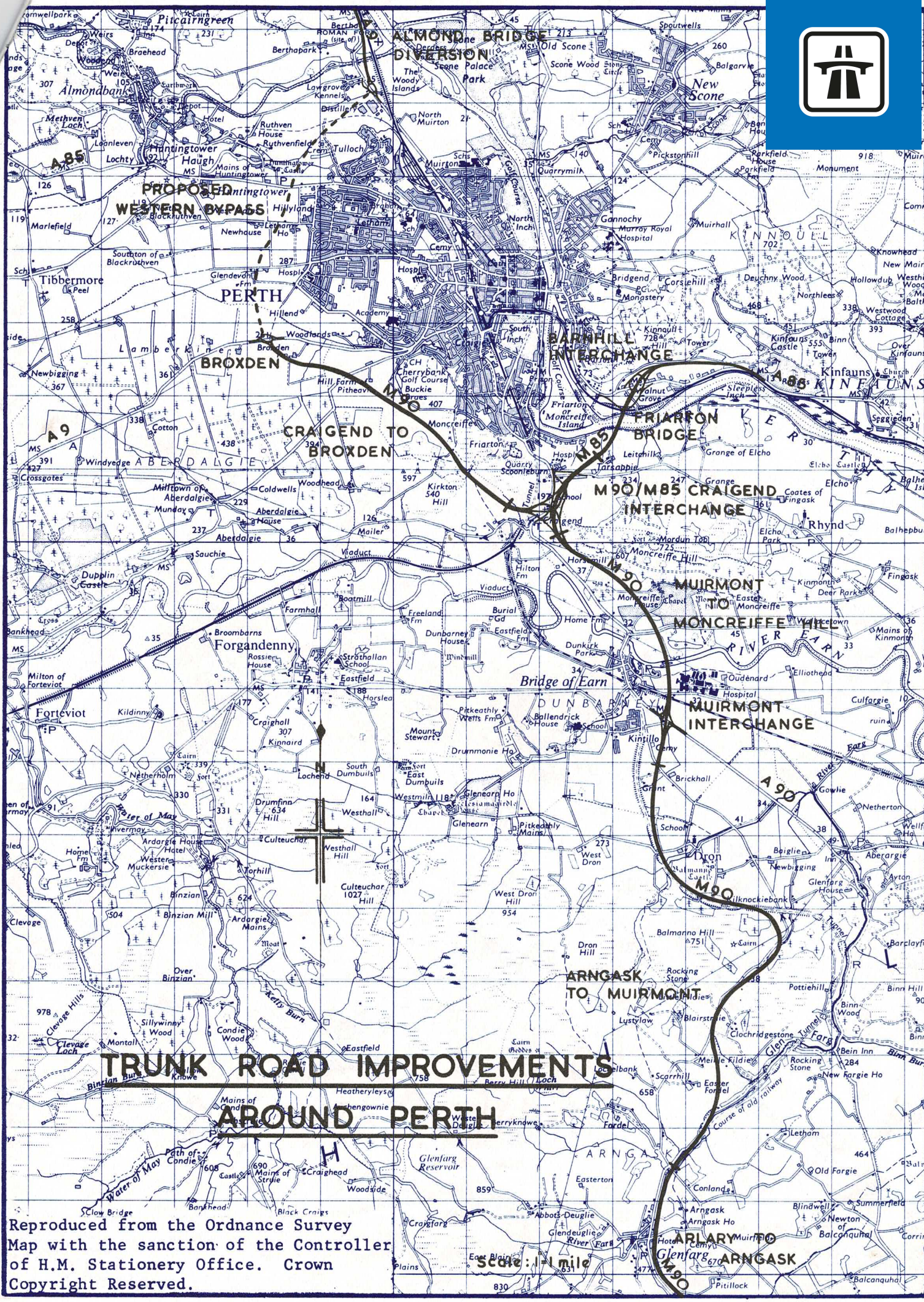
M90/M85 CRAIGEND INTERCHANGE

TECHNICAL DATA



AREA OF INTERCHANGE	31 Hectares (76.5 acres)
LENGTH	
Main dual carriageway	1.1 Kilometres
Connecting roads	5.1 Kilometres
CARRIAGEWAYS	
Motorway	2 x 7.3 metres wide, each with 3.3 metres wide hardshoulder and 0.7 metre wide hard strip.
Connecting roads	6.0 metres wide with 1.0 metre wide hard strip on near side.
CENTRAL RESERVE ON MOTORWAY	5.136 metres wide (including 0.7 metre wide hard strips)
MINIMUM RADIUS	
Motorway	694.5 metres
Connecting roads	136.4 metres
MAXIMUM GRADIENT	
Motorway	1.2%
Connecting roads	4.57% UP    5.65% DOWN
CROSSFALL/SUPERELEVATION	
Motorway	1 in 19.7
Connecting roads	1 in 14.5 maximum
ESTIMATED EXCAVATION	
Topsoil	80,000 cu.m
Suitable material excluding rock	320,000 cu.m
Rock	340,000 cu.m
Unsuitable material	160,000 cu.m
FILL REQUIREMENTS	
Within interchange	430,000 cu.m
Export to adjacent Contract	250,000 cu.m
CONSTRUCTION DETAILS	
Motorway, Connecting Roads and A90	40 mm Hot Rolled Asphalt Wearing Course in carriageways 30 mm Dense Tar Wearing Course in hardshoulders - Surface dressed 60 mm Hot Rolled Asphalt Basecourse 200 mm Dense Bitumen Macadam Roadbase 200 mm Type 1 Granular Upper Sub-base - Frost resistant 150 mm Type 2 Granular Lower Sub-base 150 mm Type 1 Granular Sub-base - Frost resistant
On normal sub-grade	
In rock cutting	
AREA OF SURFACING	75,000 sq.m
BRIDGES	7 No.
Concrete	8,600 cu.m
Reinforcement	1,450 tonnes
CONTRACT PERIOD	143 Weeks
DATE OF COMMENCEMENT	28th January, 1974
ESTIMATED COMPLETION DATE	28th October, 1976
TENDER VALUE	£3.1 million





# TRUNK ROAD IMPROVEMENTS AROUND PERTH

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Scale: 1:1 mile

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