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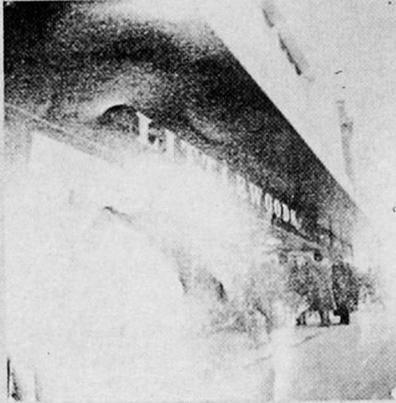
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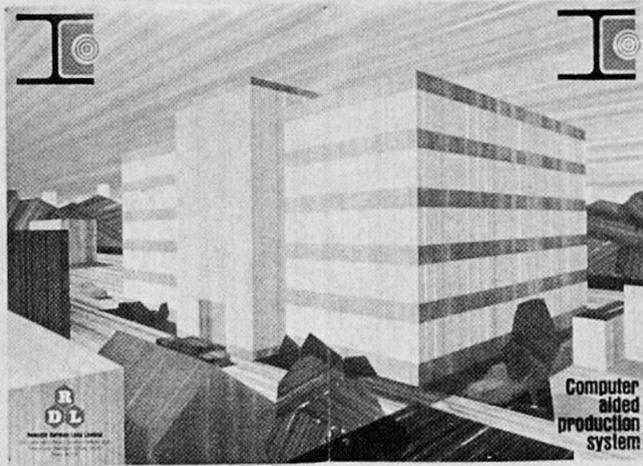
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Littlewoods Store, Stoke on Trent, England—involves CAPS (Computer Aided Production System) detailing of 973 tonnes of structural steelwork.



Workshop site



Reference	Description
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CAPS - BASIC FEATURES

Some 18 man-years of research and development by RDL have gone into making the computer-aided detailing of beam and column structures a functioning reality. The benefits of this work are now available to the steelwork fabrication industry, consultants and other major users of structural steelwork.

CAPS is set up to handle beam and column structures of any geometry using a rationalised basis of design for all connections in accordance with British or National Standards.

All connections are designed automatically except where they exceed the design criteria and these are reported to the user.

The system works to a set of preferences, for instance bolt pitch and sizes, but it will adjust where necessary.

Users can easily specify their own preferences by simple commands and can select, for example:

- Bolts from 4.6, 8.8 or HSFG grades.
- Rolled sections, made-up section plate girders and also AUTOFAB.

Bolted and welded connection types available include:

- Bolted moment connections using top and bottom angles or tees.
- Welded moment connections with or without haunch.
- Double web cleats.
- Welded end plates.
- Splices, base plates.

CAPS will handle automatically:

- Eccentricity and skew, both horizontal and vertical.
- Extra fittings, etc., extra holes, shear studs, ledger angles, unusual stanchion bases, stiffeners.

CAPS will automatically check for:

- Bolt fouling.
- Notching.
- Adequate connection strength.

Users may nominate the erection sequence by giving the boundaries of 'blocks' in terms of grid lines and floor levels and the order of the blocks determining the erection sequence.

The output produced by CAPS is extremely comprehensive and includes the following schedules automatically:

- Cost estimates - materials and workmanship.
- Scheme drawings - marked and cross-referenced.
- Detail drawings - with piece marks, standard symbols and an index.
- Material lists.
- Cutting and drilling lists.
- Shop bolt lists.
- Site bolt lists.
- Erection sequence lists.
- Numerically controlled tool tapes.

All CAPS operations are carried out in a fraction of the time they would take by traditional methods.

For further information please contact:

BUROTEC, 53 Goldington Road, Bedford, England.