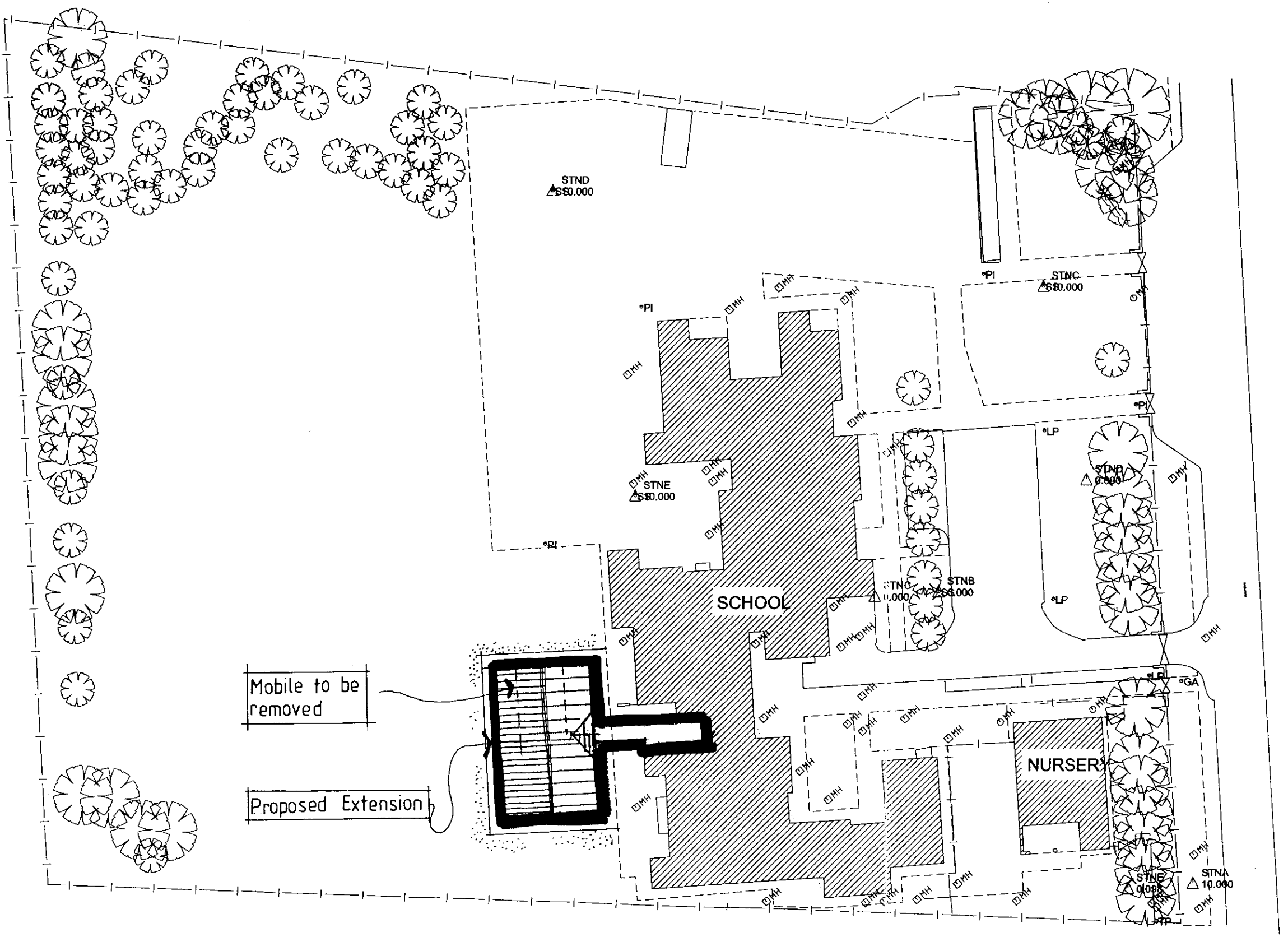



SOUTH HOLLAND DC
HOUSING & PLANNING
06 MAR 2000
Ref: S/258/00

DETERMINED PLAN

any discrepancies or proposed alterations to be notified to the architects and further instructions obtained prior to the commencement of work.

figured dimensions to be used in preference to scaled dimensions all dimensions and levels to be verified on site.

Lincolnshire County Council. client

2 Classroom Extension. project

Spalding Monkhouse C.P. School. site location

Site Layout Plan. drawing

1 : 500. scale

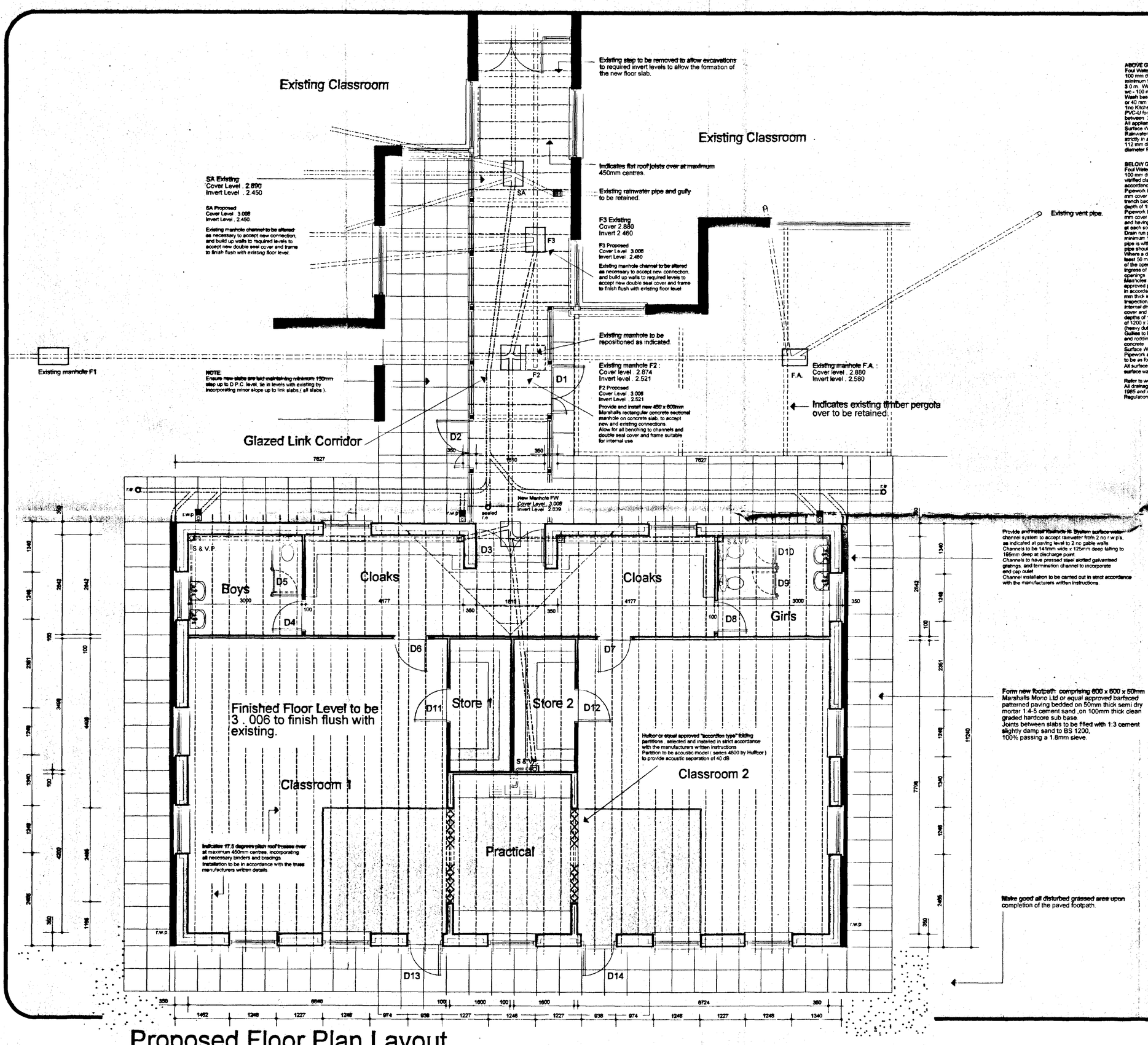
February 2000. date

00 / 007 / L / 04. drawing number

revisions

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**ABOVE GROUND DRAINAGE:**
Foul Water:
100 mm diameter PVC-U S & VP to semi-duplex with gasket minimum 900 mm above opening light of any window within 3.0 m. Waste pipes from appliances to be as follows -
wc - 100 mm diameter Multi-vik or similar approved connector
Wash basin - 32 mm diameter PVC-U for run lengths up to 1.7 m, or 40 mm for run lengths between 1.7 m and 3.0 m maximum.
1no Kitchen sinks to have - 40 mm diameter
PVC-U for run lengths up to 3.0 m and 50 mm for run lengths between 3.0 m and 4.0 m maximum.
All appliances to be fitted with 75 mm deep sealed traps
Surface Water
Rainwater goods to be Marley or similar approved. Installed strictly in accordance with manufacturer's written instructions.
112 mm diameter half-round PVC-U gutters with 68 mm diameter PVC-U downpipes

**BELOW GROUND DRAINAGE:**
Foul Water
100 mm diameter Hepworth Supersieve or similar approved vitrified clay pipework laid to falls indicated, installed strictly in accordance with manufacturer's written instructions
Pipework below paved/grassed areas and having at least 300 mm cover to be laid on 100 mm thick bed of pea gravel and the trench backfilled with selected excavated material to a minimum depth of 150 mm above the crown of the pipe.
Pipework below paved grassed areas and having less than 300 mm cover to be encased in concrete not less than 100 mm thick and having movement joints formed with compressible board at each socket or sleeve joint face.
Drain run passing beneath the building to be surrounded with minimum 100 mm granular fill except where the crown of the pipe is within 300 mm of the underside of this slab when the pipe should be encased in concrete integral with the slab
Where a drain passes through a wall, form an opening to give at least 50 mm clearance all around the pipe and mask both sides of the opening with suitable rigid sheet material to prevent the ingress of fill or vermin. Ensure adequate lintel support over openings
Manholes and inspection chambers to be Marshalls or similar approved precast concrete sectional systems installed strictly in accordance with manufacturer's written instructions on 150 mm thick in-situ concrete base.
Inspection chambers up to a depth of 1.0 m to have minimal internal dimensions of 450 x 450 mm with 450 x 450 mm steel cover and frame (heavy duty in driveways). Manholes between depths of 1.0 m and 2.7 m to have minimum internal dimensions of 1200 x 750 mm with 900 x 600 mm steel cover and frame (heavy duty in driveways)
Gullies to be square with horizontal back inlet low-back P trap and rodding access all to be bedded and surrounded in concrete
Surface Water
Pipework as for foul water except laid to falls of 1 in 100. Gullies to be as for foul water except without low back P trap.
All surface water drainage is to discharge to the existing surface water sewer system

Refer to working site layout plan for working drainage layouts.
All drainage works to be carried out in accordance with BS 8301: 1985 and Approved Documents H1 and H3 of the Building Regulations 1991 (amended 1992)

**WINDOWS AND DOORS:**
Windows to be white standard uPVC, Manufacturer to be selected from the LCC Approved list, and system to be installed in strict accordance wit the manufacturers written instructions
Windows to be double glazed units to achieve a maximum U value of 3.3 W / m2K
Doors and frames to be hardwood, single glazed 6mm glass to achieve maximum U value of 3.3 W/ m2K
All windows to incorporate adjustable trickle ventilators.
Windows and doors to be set back in reveals to cloak vertical insulated dpc's by at least 25mm

**JOINERY:**
All external joinery to be preservative treated

**ROOF ACCESS:**
Form roof access between 2no adjacent trusses as indicated on plan layout. Trim out opening between ceiling chords of trusses with 50 x 100 mm softwood joists and fix ex 25 x 38 softwood stop bead to inner perimeter of opening; bottom edge of stop bead to finish flush with unders de of ceiling, to receive architrave trim. Access hatch to be formed using 19 mm blockboard (all edges lipped) with 100 mm thick extruded polystyrene insulation board, fixed to top surface. Fix draught seal to top edge of stop bead and fix bolts or catches to hatch to compress draught seal when in closed position

**Any discrepancies or proposed alterations to be notified to the architects and further instructions obtained prior to the commencement of work.**

**Figured dimensions to be used in preference to scaled dimensions. All dimensions and levels to be verified on site.**

Lincolnshire County Council. — client

2 Classroom Extension. — project

Spalding Monkhouse C.P. School. — site location

Proposed Floor Plan Layout. — drawing

1 : 50. — scale

January 2000. — date

00 / 007 / L / 01 c . — drawing number

Revision A 8th February 2000 : Minor amendments and additions
Revision B 10th February 2000 : Minor amendments and additions
Revision C 15th February 2000 : Minor amendments to LCC requirements — revisions

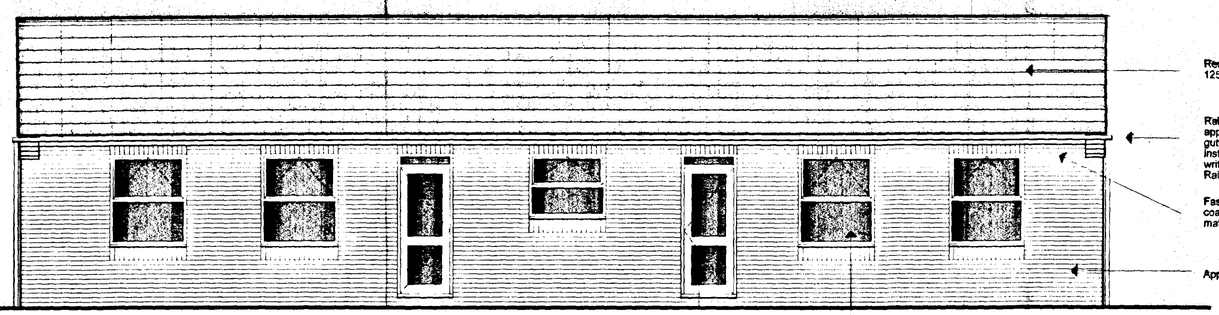
DETERMINED PLAN

SOUTH HOLLAND DC HOUSING & PLANNING 06 MAR 2000 Ref: 0281/00

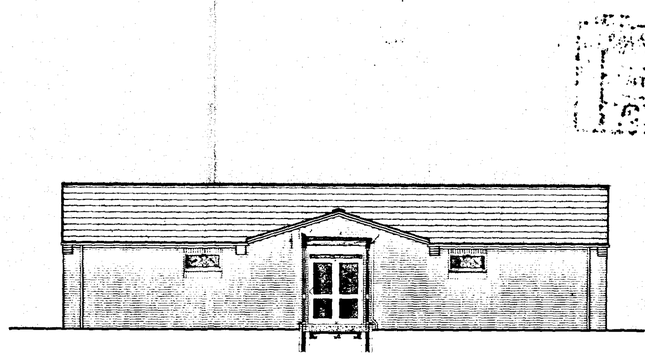
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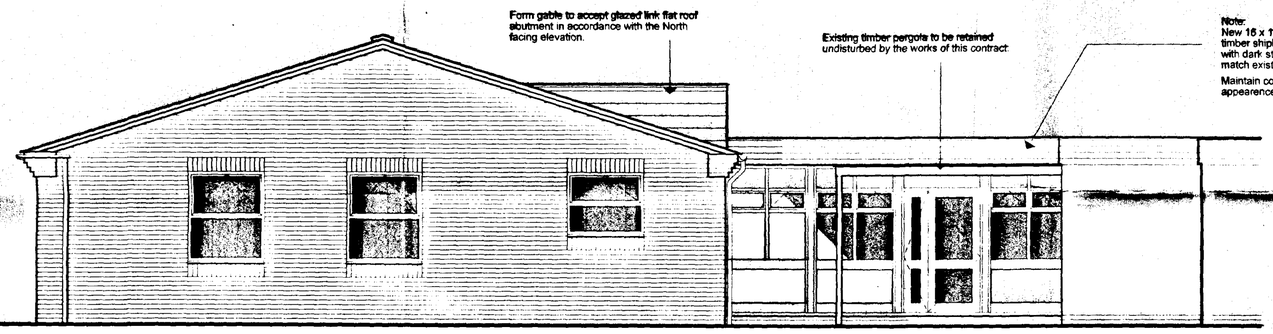

# Proposed Floor Plan Layout.




## South Facing Elevation.

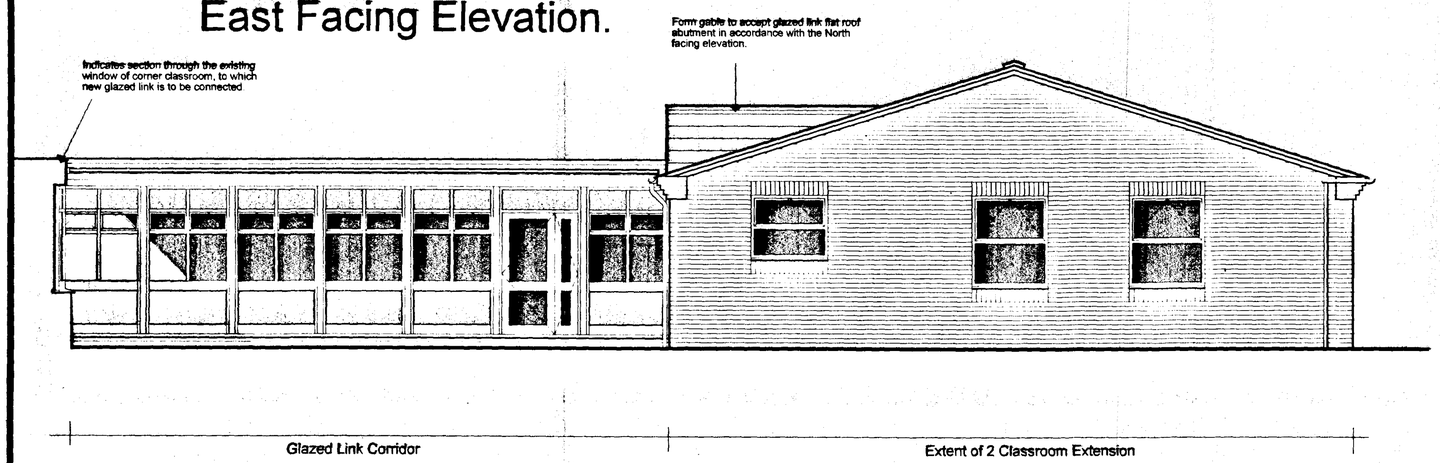


## North Facing Elevation.




Extent of 2 Classroom Extension | Glazed Link Corridor | Existing Classroom

## East Facing Elevation.




Glazed Link Corridor | Extent of 2 Classroom Extension

## West Facing Elevation.

any discrepancies or proposed alterations to be notified to the architects and further instructions obtained prior to the commencement of work.

figured dimensions to be used in preference to scaled dimensions. all dimensions and levels to be verified on site.

Lincolnshire County Council. client

2 Classroom Extension. project

Spalding Monkhouse C.P. School. site location

Proposed Elevations. drawing

1 : 50 , 1 : 100. scale

February 2000. date

00 / 007 / L / 02 B drawing number

Revision A 8th February 2000 : Minor amendments and additions.
Revision B 16th February 2000 : Minor amendments and additions. revisions

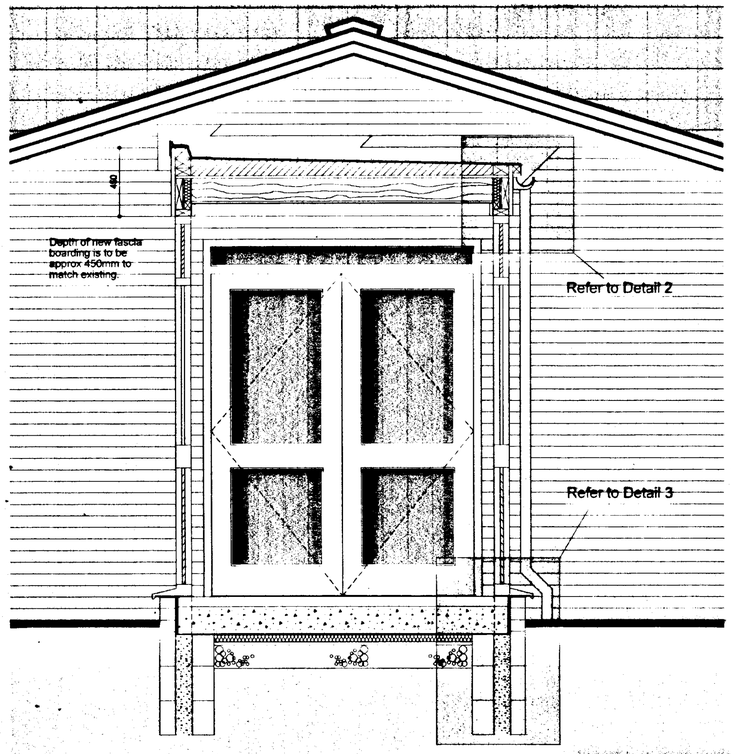
DETERMINED PLAN

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# Section B - B

Proposed detailed section through glazed link corridor , ( 1 : 20 ).

**FOUNDATIONS:**
Foundations to be formed in strict accordance with the structural engineers written instructions and details, refer to drawing nos 33099 / 01 & / 03.

**MASONRY WALLING BELOW GROUND LEVEL:**
Masonry walling below ground level to be in either Class 3 common brickwork or Class A blockwork in cement mortar. Commence facing brickwork outer leaf 3 no courses below D.P.C. . Infill cavity of external cavity wall construction up to FGL with lean mix concrete

**GROUND FLOOR CONSTRUCTION:**
Remove overbite vegetation and topsoil minimum depth 150 mm and excavate to reduced levels . 65 mm thick sand cement screed with light gauge wire mesh reinforcements on 175 mm thick C35 concrete slab ( to engineers section 300 micron (1200 gauge) polythene DPM (turned up at edges and linked to DPC's in walls) on 50 mm thick Jablite or similar approved expanded polystyrene insulation boards
Also install floor insulation boards vertically around perimeter of concrete slab against inner face of the external cavity wall construction
On minimum 175 mm thick sand blinded well-consolidated clean graded stone hardcore base
Ground floor construction to achieve a maximum U-value of 0.45 W/m2K
NOTE: Where internal non-loadbearing blockwork walls are to be built off ground floor slab, install mesh reinforcement in accordance with the structural engineers written instructions and details

**PAVING:**
Form new footpath comprising 600 x 600 x 50mm Marshalls Mono Ltd or equal approved berfaced patterned paving bedded on 50 mm thick semi dry mortar 1 4-5 cement sand on 100mm thick clean graded hardcore sub base
Joints between slabs to be filled with 1.3 cement slightly damp sand to BS 1200. 100% passing a 1.8mm sieve

**EXTERNAL WALL CONSTRUCTION:**
350 mm cavity wall construction comprising 102 mm nominal approved facing brickwork outer leaf, 108 mm wide cavity incorporating 50 mm thick Celotex CW2 or similar approved, partial cavity wall insulation installed strictly in accordance with manufacturer's written instructions and recommendations . 140 mm lightweight blockwork inner leaf, minimum compressive strength 3.5 N/mm2, fair faced blocks to have nominal dry density of 1400 kg / m3.
External wall construction to achieve maximum U-value of 0.35 W/m2K . Incorporate galvanised wire wall ties to BS 1243 1978 at 900mm horizontal centres, 450 mm staggered vertical centres, and 225 mm vertical centres at jambs of openings
Close cavities at jambs and cills of openings with concrete block returns to outer leaf, incorporating Diamcor or similar approved insulated DPC installed strictly in accordance with manufacturer's instructions and recommendations
Incorporate pitch polymer DPC's in both leaves of cavity wall construction and to internal walls taken down to foundations at minimum 150 mm above FGL

**DAMP PROOFING**
Install cavity trays in external wall construction, minimum 150 mm above roof abutments, incorporating weep holes at maximum 450 mm centres and Code 4 lead flashings

**INTERNAL WALL CONSTRUCTION:**
200mm thick non-loadbearing lightweight blockwork (minimum compressive strength 3.5 N/mm2) built off reinforced slab in accordance with the structural engineers details on drawing no 33099 / 01
100mm thick non-loadbearing lightweight blockwork (minimum compressive strength 3.5 N/mm2) built off reinforced slab in accordance with the structural engineers details on drawing no 33099 / 01.

**LINTELS:**
Lintels to openings in masonry walling below ground level to be Naylor or similar approved precast reinforced concrete lintels (minimum 100 mm end bearings).
Lintels to openings in cavity wall construction above ground level to be I.G. or similar approved insulated galvanised steel lintels (minimum 150 mm end bearings).
Lintels to openings to internal single leaf blockwork walls above ground level to be Naylor or similar approved precast reinforced concrete lintels (minimum 100 mm end bearings).
All lintels to be selected and installed strictly in accordance with manufacturer's written instructions

**MORTAR**
Mortar should be to the proportions given in BS 5628 Part 1:1978 for mortar designation (iii) or 1 1:6 Portland cement, lime, and fine aggregate measured by volume of dry materials or of equivalent or where appropriate, of greater strength, which is compatible with the masonry units and position of use

Note: All construction to be in accordance with BS 5628 Part 1: 1978 and Part 3 1985 and Sections A1 and A2 of Approved Document A of the Building Regulations 1991, 1992 Edition.

**PITCHED ROOF CONSTRUCTION:**
Redland Stonewold (slate) interlocking roof tiles fixed strictly in accordance with manufacturer's written instructions on 50 x 25 mm tanalised softwood tile battens on Monarflex Monarfly 250 or equal approved high performance reinforced polyethelene roofing underlay installed in strict accordance with the manufacturers written instructions incorporating Monarflex Eavesguard at eaves
Roofing underlay on 17.5o pitch trussed rafters at maximum 450 mm centres. 100 x 50mm preservative treated softwood wallplates bedded in mortar and secured with 30 x 5 x 100 x 1000 mm galvanised steel anchor straps at maximum 2.0 m centres. Secure trusses to wallplates using proprietary galvanised steel truss clips. Restrain gable walls by strapping to 3 no adjacent roof trusses with 30 x 5 x 100 x 1400 mm galvanised steel restraint straps at maximum 2.0 m centres along lines of rafters and ceiling cords. Install solid softwood noggins minimum 38 x 75 mm between rafter in locations of restraint straps. Trussed rafters, including all necessary binding and bracings to be designed, manufactured, and installed by specialists in accordance with BS 5268 Part 3:1985

**PITCHED ROOF INSULATION:**
200mm thick Rockwool Rollbatts or similar approved lightweight insulation (0.037 W/mK) comprising 100mm thick insulation laid between ceiling chords of trusses and 100mm thick insulation laid over to achieve a maximum U-value of 0.25 W/m2K

**ROOF SPACE VENTILATION:**
Install Wilan Glidevale or similar approved ventilators at eaves level to promote cross-ventilation. Ventilation openings should have an area on opposite sides at least equal to continuous 10 mm wide ventilation running the full length of the eaves. Ensure that insulation quilt does not impede air flow at eaves.

**FLAT ROOF CONSTRUCTION. INSULATED**
3 layer built-up felt system installed strictly in accordance with manufacturer's written instructions on Eurooof tapered insulation , with fall of 1 in 60 to achieve a maximum U value of 0.3 W / m2 K.
Insulation to be fully bedded in a mopping of hot bitumen to the vapour barrier. Vapour barrier to be a single layer of metal lined, polyester based bitumen roofing, Nilperm laid in hot bitumen with 75mm minimum laps dressed and sealed around penetrations and open edges of insulation.
Vapour barrier to be fully bonded to 18mm thick exterior grade WBP plywood , on 150 x 50mm grade C16 timber flat roof joints at maximum 450mm centres on joist hangers on 200 x 50mm eaves beams spanning between steel posts.
Where joists run parallel to external cavity wall construction Install Catnic or similar approved L-shaped galvanised steel restraint straps (having cross-sectional dimensions of 5 mm x 30 mm) at maximum 2.0 m centres carried over at least 3 no joists
Install solid softwood noggins between joists in locations of restrain straps
Solid noggins to be at least 38 mm thick with depth at least equal to 2/3 that of joists

Flat roof coverings to be standard fully bonded Derbigum specification comprising the following:
Base Layer Type 3B Roofing to BS 747 hot bitumen bonded
Cap Sheet Derbigum SP Roofing torch applied.
Surfacing Derbigum SP Mineral Roofing torch applied.
All to be selected and installed in strict accordance with the manufacturers written instructions.

Base Layer of felt to be fully bonded to Eurooof Korktaper / Korkplus Taperslabs to achieve maximum U value of 0.3 W/m 2 K. Korktaper / Korkplus Taperslabs to be fully bedded in a mopping of hot bitumen to the vapour check barrier.

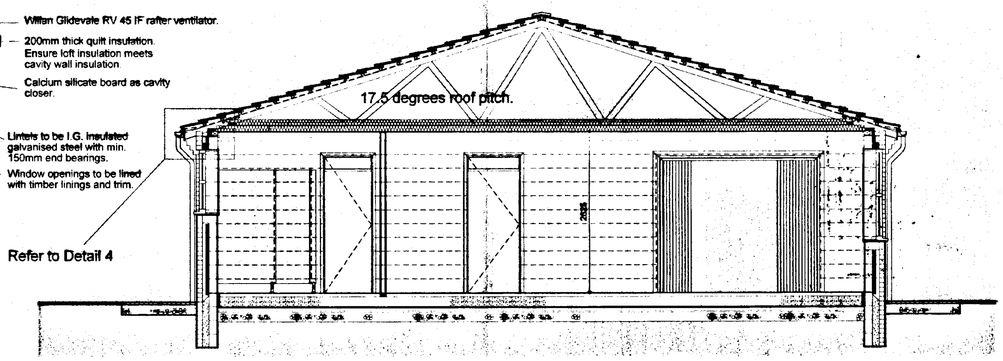
Vapour check barrier to be laid on 18mm thick exterior grade WBP plywood decking on 150 x 50 mm C16 flat roof joists on joist hangers at each end.

200 x 50mm grade C16 timber eaves beam fixed between 100 x 100mm SHS posts on fixing plates installed in accordance with the engineers details, ( refer to proposals drawing no 33099 / 03 ).

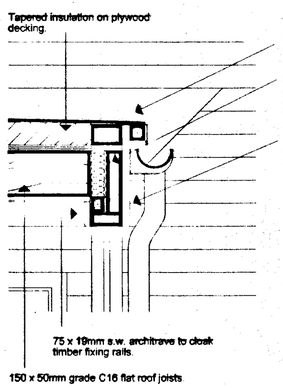



## Detail 4

Pitched roof eaves detail.

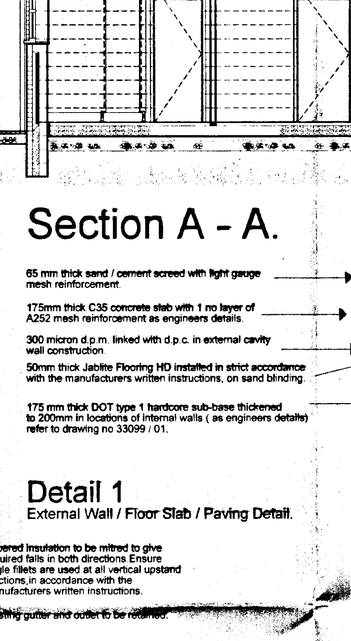


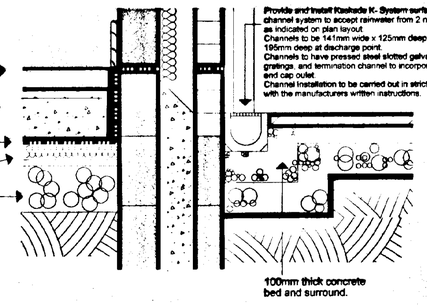

# Section A - A.




## Detail 2

Glazed Link eaves detail.



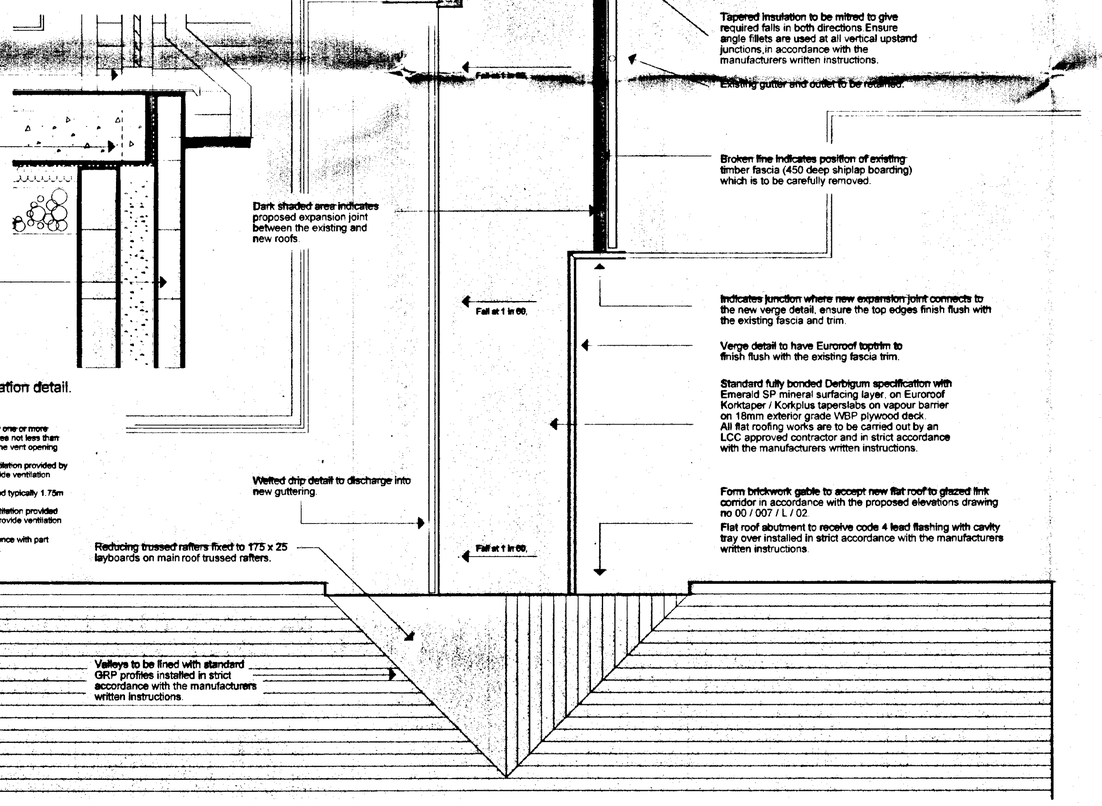




## Detail 1

External Wall / Floor Slab / Paving Detail.

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# Proposed Roof Plan Layout.

Lincolnshire County Council. client

2 Classroom Extension. project

Spalding Monkhouse C.P. School. site location

Proposed Sections & Details. drawing

1 : 20 , 1 : 50. scale

February 2000.

00 / 007 / L / 03 drawing number

DETERMINED PLAN date

Revision A 8th February 2000 : Minor amendments and additions. revisions
Revision B 10th February 2000 : Transome panel added over door heads.

SOUTH HOLLAND DC HOUSING & PLANNING 08 MAR 2000 Ref:

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