## STANDARD DRAWINGS INDEX

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<tr>
<td>020</td>
<td>Revision 1</td>
<td>Apr-11</td>
<td>Subsurface Drain Back of Kerb</td>
</tr>
</tbody>
</table>
PROPERTY BOUNDARY

0.50

7.00m (MIN.)

3.00

1 in 40

OPEN INVERT CHANNEL

SUBSOIL DRAIN
DEPTH 300mm
BELOW SUBBASE

ACCESS LANE
NOT TO SCALE
NOTES:

1. DIMENSIONS FROM INVERT OF KERB AS SUME B2 KERB
2. MINIMUM DIMENSIONS ASSUME SM2 KERB

ACCESS PLACE
NOT TO SCALE

CONCRETE PAVING
AS PER FIGURE 010

VARIABLE
1 HARDSTAND
PER LOT 2.300

FOOTPATH DETAIL
AS PER FIGURE 006

ACCESS PLACE HARDSTAND
NOT TO SCALE
SERVICES NOTES:

1. ASSUME WATER 100mm CONDUIT AND GAS 50mm CONDUIT

2. ASSUME STORMWATER DRAINAGE PIT 600x600

3. LOCATE FTTH UNDER FOOTPATH WHERE STORMWATER DRAINAGE PIT WIDTH GREATER THAN 600mm

4. ASSUME 1200mm RISER IN HAUNCHED STORMWATER DRAINAGE PIT

5. MAXIMUM 2xHV POWER CABLES IN 100mm ELECTRICAL CONDUITS AND 2xHV POWER CABLES IN 120mm CONDUITS

6. FTTH HIGH SIDE (NON NETWORK SIDE)

- NON NETWORK SIDE TYPICALLY CONSISTS OF ISOLATED PITS AT REGULAR INTERVALS WITH CONNECTIONS TO THE NETWORK VIA ROAD CROSSINGS. HOWEVER IN SOME INSTANCES PITS MAY BE CONNECTED WITH CONDUITS SIMILAR TO NETWORK SIDE.

7. FTTH LOW SIDE (NETWORK SIDE)

- NETWORK (DISTRIBUTION) SIDE CONSISTS OF CONDUIT RUNS ALONGSIDE ROADS WITH PITS AT REGULAR INTERVALS FOR ACCESS TO THE NETWORK AND FOR ROAD CROSSINGS TO THE NEW NETWORK SIDE

- IN MOST INSTANCES THE NETWORK SIDE WILL BE ON THE SAME SIDE AS THE ELECTRICAL DISTRIBUTION. HOWEVER THERE ARE EXCEPTIONS IN WHICH THE NETWORK WILL BE RUN ON THE NON-ELECTRICAL SIDE.
NOTES:

1. LANDSCAPING REQUIRES SPECIAL CONSIDERATION WHEN POSITIONING ADJACENT TO MELBOURNE WATER MAIN DRAINS

FTTH NOTES:

2. FTTH HIGH SIDE (NON NETWORK SIDE)

- NON NETWORK SIDE TYPICALLY CONSISTS OF ISOLATED PITS AT REGULAR INTERVALS WITH CONNECTIONS TO THE NETWORK VIA ROAD CROSSINGS.
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- IN MOST INSTANCES THE NETWORK SIDE WILL BE ON THE SAME SIDE AS THE ELECTRICAL DISTRIBUTION. HOWEVER THERE ARE EXCEPTIONS IN WHICH THE NETWORK WILL BE RUN ON THE NON-ELECTRICAL SIDE.
1. FOUR TIE BARS TO BE INSTALLED AT 300 MAXIMUM CENTRES COMMENCING 150 FROM EDGE AT EACH E.J. OR C.J. EXPANSION JOINTS AT MAXIMUM 18m CENTRES.

2. WEAKENED PLANE JOINTS SHALL BE LOCATED AT 1500 CENTRES AND MAY BE MADE WITH A T IRON (OR CONCRETE SAW WITHIN 24-36Hrs OF POUR).

3. THE FINISHED SURFACE SHALL HAVE A LIGHT BROOM FINISH WITH ALL JOINTS AND EDGES HIGHLIGHTED.

4. CONCRETE USED FOR RESIDENTIAL FOOTPATH SHALL BE 25MPa AT 28 DAYS. (32MPa FOR COLOURED CONCRETE).

5. CONCRETE USED FOR INDUSTRIAL FOOTPATH SHALL BE 32MPa AT 28 DAYS. (32MPa FOR COLOURED CONCRETE).

6. FORMWORK TIMBER TO BE MIN. 90mm DEEP.

7. ALL DIMENSIONS IN mm.

8. SHARED PATHS TO BE 2.5m IN WIDTH.

9. WHERE APPROVED RECYCLED MATERIALS CAN BE USED.
NOTES:

1. FOUR TIE BARS TO BE INSTALLED AT 300 MAXIMUM CENTRES COMMENCING 150 FROM EDGE AT EACH E.J. OR C.J. EXPANSION JOINTS AT MAXIMUM 18m CENTRES.

2. WEAKENED PLANE JOINTS SHALL BE LOCATED AT 1500 CENTRES AND MAY BE MADE WITH A ‘T’ IRON (OR CONCRETE SAW WITHIN 24-36Hrs OF POUR).

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6. FORMWORK TIMBER TO BE MIN. 90mm DEEP.

7. ALL DIMENSIONS IN mm.

8. SHARED PATHS TO BE 2.5m IN WIDTH.

9. WHERE APPROVED RECYCLED MATERIAL CAN BE USED
NOTES:

1. CONCRETE SHALL BE NORMAL CLASS N25 STANDARD STRENGTH GRADE COMPLYING WITH THE REQUIREMENTS OF AS. 1379. REFER TO VICROADS STANDARD SPECIFICATION 703 FOR REQUIREMENTS OF CONCRETE TO BE USED IN EXTRUSION MACHINES.

2. REFER TO AUSTROADS GUIDE TO ROAD DESIGN PART 3: GEOMETRIC DESIGN FOR THE RECOMMENDED USE OF KERBS AND CHANNELS.

3. MOUNTABLE KERBS M4, M5 AND M6 ARE DESIGNED TO DISCOURAGE MOST TRAFFIC FROM MOUNTING A TRAFFIC ISLAND OR MEDIAN EXCEPT FOR LONG OR OVER DIMENSIONAL VEHICLES, EG. THE KERB ON THE OUTER EDGE OF THE MOUNTABLE APRON OF A ROUNDABOUT'S CENTRAL ISLAND. THESE KERBS SHALL NOT BE USED WHERE THERE IS A LIKELIHOOD THAT CYCLISTS, PEDESTRIANS OR PRAMS WILL CROSS THE KERB.
PLANS NOT TO SCALE

NOTES:
1. NO BULLNOSE IN THE INVERT OF KERB SHALL BE ACCEPTED
2. FOR CONCRETE STRENGTH REFER FIGURE 006
3. ALL FINISHED SURFACES MUST COMPLY WITH AS 4586 - SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
4. SPLAYS TO BE 600mm WITH KERB TRANSITION.
5. CONCRETE TO BE LIGHT BROOM FINISH, UNLESS OTHERWISE SPECIFIED, WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
6. TACTILE GROUND SURFACE INDICATORS (TGSI's) TO BE INSTALLED. TGSI's ARE TO COMPLY WITH AS1428.4.
7. CROSSING TO BE AT RIGHT ANGLES TO ROAD CARRIAGEWAY, ALIGNED WITH OPPOSITE PRAM CROSSING AND WITH A DIRECT PATH OF TRAVEL.
NOTES:
1. NO BULLNOSE IN THE INVERT OF KERB.
2. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
3. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
4. NO PATTERN-PAVE FINISH OR COLOURED CONCRETE.
5. EXPANSION JOINT SHALL HAVE 3 No. N12 Ø DEFORMED BARS, 450mm LONG @ 300mm CENTRES, CENTRALLY PLACED.
6. CONCRETE USED FOR RESIDENTIAL VEHICLE CROSSING SHALL BE 25MPa AT 28 DAYS.
7. CONCRETE USED FOR INDUSTRIAL VEHICLE CROSSING SHALL BE 32MPa AT 28 DAYS. CONCRETE THICKNESS TO BE DESIGNED FOR TRAFFIC LOADING.
8. REINFORCING TO BE PLACED 50mm FROM TOP OF SLAB AND MUST ACHIEVE MIN 50mm COVER TO ALL EDGES.

TABLE 1: MINIMUM CLEARANCES

<table>
<thead>
<tr>
<th>BETWEEN CROSSOVERS</th>
<th>7 METRES AT KERB</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAINAGE PITS</td>
<td>0.75 METRES</td>
</tr>
<tr>
<td>(WITHIN 0.75m - INSTALL HEAVY DUTY PIT (LID))</td>
<td></td>
</tr>
<tr>
<td>TRAFFIC MANAGEMENT DEVICES</td>
<td>1 METRE</td>
</tr>
<tr>
<td>UTILITY SERVICE ASSETS</td>
<td>1 METRE</td>
</tr>
<tr>
<td>STREET LIGHT</td>
<td>2 METRES</td>
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<tr>
<td>INTERSECTIONS</td>
<td>9 METRES FROM INTERSECTING KERB LINE</td>
</tr>
<tr>
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<td>2 METRES</td>
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<tr>
<td>TREES</td>
<td>3 METRES</td>
</tr>
<tr>
<td>FIRE HYDRANT</td>
<td>1.5 METRES</td>
</tr>
<tr>
<td>LEGAL POINT OF DISCHARGE</td>
<td>1 METRE</td>
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NOTES:
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<td>15 METRES</td>
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3. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.

4. **NO PATTERN-PAVE FINISH OR COLOURED CONCRETE.**

5. EXPANSION JOINT SHALL HAVE 3 No. N12 Ø DEFORMED BARS, 450mm LONG @ 300mm CENTRES AND AT CENTRAL DEPTH.

6. CONCRETE STRENGTH OF 25MPa AT 28 DAYS.

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2. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.

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4. **NO PATTERN-PAVE FINISH OR COLOURED CONCRETE.**

5. EXPANSION JOINT SHALL HAVE 3 No. N12 Ø DEFORMED BARS, 450mm LONG @ 300mm CENTRES AND AT CENTRAL DEPTH.

6. CONCRETE STRENGTH OF 25MPa AT 28 DAYS.

7. REINFORCING TO BE PLACED 50mm FROM TOP OF SLAB AND MUST ACHIEVE MIN 50mm COVER TO ALL EDGES.
**NOTES:**

1. INSIDE DIMENSIONS OF SIDE ENTRY PITS TO BE 900 x 600 FOR PIPES NOT EXCEEDING 450mm. LARGER PIPES REQUIRE PIT HAUNCHING AS PER VICROADS SD1001 TO SD1023.

2. REINFORCEMENT FOR THE PIT DIA < 450mm AND DEPTH > 1200mm REFER TO DWG SD 1011D. FOR HAUNCHED PITS REINFORCEMENTS ARE TO BE AS SHOWN IN THE VICROADS STD. DWG. T1 1201.

3. PIPE CENTRELINE TO BE 450 MINIMUM OR Ø PIPE +150mm BEHIND BOK. +150mm BEHIND BOK.

4. PIT WALLS AND FLOOR:
   - 150 THICK FOR DEPTH TO 3600.
   - 200 THICK FOR DEPTH > 3600.

5. PITS > 900 DEPTH TO BE SUPPLIED WITH STEP IRONS - REFER TO VICROADS SD1041.

6. SUBJECT TO SUPERINTENDENT'S & COUNCIL APPROVAL PRECAST PITS MAY BE SUBSTITUTED.

7. TOP OF PIT TO MATCH FINISHED SURFACE LEVELS.

8. STEP IRONS TO BE PROVIDED IN ALL PITS OVER 900mm DEEP.

9. CONCRETE STRENGTH 25MPa AT 28 DAYS.

10. ALL PIT COVERS AND GRATES ARE TO BE AS PER AS3996.

   FIBRE GLASS LIDS:
   - TO BE CLASS 'B' OR ABOVE
   - NOT GREATER THAN 25KG IN WEIGHT FOR 600x900 PIT.
   - IMPRINTED WITH "AS 3996" CLASS 'B' AND WEIGHT IN KILOGRAMS, IN 25mm LETTERING

11. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FORMWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.

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**STANDARD DRAWINGS FOR SUBDIVISIONS IN GROWTH AREAS**

**SIDE ENTRY PIT GRATED B2 KERB AND CHANNEL**

---

**Figure 012**

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**Revision 1 APR 2011**
NOTES:
1. INSIDE DIMENSIONS OF SIDE ENTRY PTS TO BE 900 x 600 FOR PIPES NOT EXCEEDING 450mm. LARGER PIPES REQUIRE PIT HAUNCHING AS PER VICROADS SD1011 TO SD1023.
2. REINFORCEMENT FOR THE PIT DIA < 450mm AND DEPTH > 1200mm REFER VICROADS DWG SD1011D. FOR HAUCHED PITS REINFORCEMENTS ARE TO BE AS SHOWN IN THE VICROADS STD. DWG. 1/2/14.
3. PIPE CENTRELINE TO BE 450 MINIMUM OR \( \frac{1}{4} \) DPIPE +10mm BEHIND BOX.
4. PIT WALLS AND FLOOR:
   - 150 THICK FOR DEPTH TO 3600.
   - 200 THICK FOR DEPTH > 3600.
5. PTS > 900 DEPTH TO BE SUPPLIED WITH STEP IRONS - REFER TO VICROADS SD1041.
6. SUBJECT TO SUPERINTENDENTS & COUNCIL APPROVAL PRECAST PTS MAY BE SUBSTITUTED.
7. TOP OF PIT TO MATCH FINISHED SURFACE LEVELS.
8. STEP IRONS TO BE PROVIDED IN ALL PTS OVER 900mm DEEP.
9. CONCRETE STRENGTH 25MPa AT 28 DAYS.
10. ALL PIT COVERS AND GRATES IN ACCORDANCE WITH AS3996.
11. FIBRE GLASS LIDS:
   - TO BE CLASS 'B' OR ABOVE
   - NOT GREATER THAN 25KG IN WEIGHT FOR 600x900 PIT.
   - IMPRINTED WITH "AS 3996" CLASS 'B' AND WEIGHT IN KILOGRAMS, IN 25mm LETTERING
12. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.
NOTES:
1. PIT BASE TO BE HAUNCHED WHERE ØPIPE + 100 > MIN PIT SIZE.
2. PIPE CENTRELINE TO BE ½ ØPIPE + 150 BEHIND B.O.K.
3. PIT WALLS AND FLOOR:
   - 130 THICK FOR DEPTH TO 3600
   - 200 THICK FOR DEPTH > 3600
4. PIT > 900 DEPTH TO BE SUPPLIED WITH STEP IRONS.
5. SUBJECT TO COUNCIL APPROVAL PRECAST PITS MAY BE SUBSTITUTED.
6. PIT TO MATCH FINISHED SURFACE LEVELS.
7. FOR GRATED PITS, GALVANISED LID IN ACCORDANCE WITH AS3996.
8. PITS IN ROAD RESERVE SUBJECTED TO TRAFFIC LOADING TO HAVE CLASS D COVERS, AS PER AS3996. OTHERWISE LIDS TO BE:
   - LIGHT WEIGHT FIBREGLASS CLASS 'B' OR ABOVE
   - NOT GREATER THAN 25KG IN WEIGHT FOR 600x900 PIT.
   - IMPRINTED WITH "AS 3996" CLASS 'B' AND WEIGHT IN KILOGRAMS, IN 25mm LETTERING.

TABLE 1: EASEMENT PIT - MINIMUM INTERNAL SIZE ACCORDING TO PIT DEPTH (SEE NOTE 1)

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>PIT SIZE</th>
<th>FRAME SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1000</td>
<td>600 x 600</td>
<td>825 x 625</td>
</tr>
<tr>
<td>&gt;1000</td>
<td>600 x 900</td>
<td>800 x 1100</td>
</tr>
</tbody>
</table>

*FIX BOLTS THIS SIDE TO ACHIEVE MIN EDGE DIST.

TABLE 2: JUNCTION PIT IN ROAD RESERVE MINIMUM INTERNAL PIT SIZE ACCORDING TO PIT DEPTH (SEE NOTE 1)

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>PIT SIZE</th>
<th>FRAME SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL</td>
<td>600 x 900</td>
<td>800 x 1100</td>
</tr>
</tbody>
</table>

75mm LAYER OF COMPACTED CLASS 2 FOR
1. FOR USE ON PIPES AT GRADES OF 1 IN 10 OR STEEPER.
2. TO BE CONSTRUCTED AT MID-POINT OF EVERY FOURTH 2.44m LENGTH PIPE. SPACING NO GREATER THAN 10m.
3. CONCRETE STRENGTH TO BE 25 MPa.
NOTES:
1. ALL PIPES AND FITTINGS TO BE OF 100mm PVC SEWER CLASS HEAVY, REFER AS 1260.
2. FOR SHALLOW DRAINS, COUNCILS ENGINEER MAY GIVE APPROVAL TO CONNECT THE PROPERTY DRAIN INTO THE SIDE OF THE DRAIN.
3. DEPTH ‘D’ TO BE MINIMUM 500mm OR GREATER AS DIRECTED BY COUNCIL ENGINEER.
4. BACKFILLING / HAUNCHING TO BE CLASS 3 FOR.
5. ALL DIMENSIONS IN MILLIMETRES OR AS NOTED OTHERWISE.
6. NOT APPLICABLE TO MELBOURNE WATER CORPORATION DRAINAGE ASSETS. FOR MWC WORKS REFER TO MWC LAND DEVELOPMENT MANUAL.
1. All pipes and fittings to be of 100mm PVC sewer class Heavy, refer to AS 1260.
2. For shallow drains, Council's Engineer may give approval to connect the property drain into the side of the drain.
3. Depth 'd' to be minimum 400mm or greater as directed by Council Engineer.
4. Backfilling / haunching to be Class 3 for.
5. All dimensions in millimetres or as noted otherwise.
NOTES:
1. ALL PIPES AND FITTINGS TO BE OF 100mm PVC SEWER CLASS HEAVY, REFER AS 1260.
2. DEPTH 'D' TO BE MINIMUM 600mm OR GREATER AS DIRECTED BY COUNCIL ENGINEER.
3. BEDDING TO BE COMPACTED DEPTH OF 50MM CLASS 3 CRUSHED ROCK.
4. BACKFILLING AND HAUNCHING TO BE CLASS 3 FCR.
5. TRENCH UNDER FOOTPATH TO BE BACKFILLED WITH COMPACTED 20MM CLASS 3 CRUSHED ROCK TO UNDERSIDE OF FOOTPATH.
6. IF THE HOLE FOR THE PIPE IS NOT AVAILABLE, A HOLE IS TO BE COLD DRILLED.
7. ALL DIMENSIONS IN MILLIMETRES OR AS NOTED OTHERWISE.
PLATE ROCK LENGTH TO DEPTH RATIO SHALL BE GREATER THAN 2.5:1

MORTAR PAD BETWEEN PIPE AND ROCKS ABUTTING PIPE (NO POINT LOADS)

OUTLINE OF CUTOFF WALL

BANK ROCKWORK TO FINISH Flush WITH SURROUNDING GROUND

LEGEND:
- TOE/EDGE ROCKS
- LINING ROCK
- FILTER/EMBEDMENT LAYER

NOTES:
1. REFER TO SEC. 5.14 OF MELBOURNE WATER LAND DEVELOPMENT MANUAL FOR GENERAL NOTES ON ROCKWORK.
2. REFER TO SECTION 5.4.3 OF MELBOURNE WATER LAND DEVELOPMENT MANUAL FOR MORE INFORMATION ON DRAINAGE CONNECTIONS.
3. CUT OFF WALL TO EXTEND VERTICALLY TO SOLID GROUND (MIN. 500mm BELOW PIPE) AND HORIZONTALLY TO FULL PIPE BEDDING CONDITIONS.
4. OUTLET PIPE SHALL BE INTEGRATED INTO SURROUNDING LANDSCAPE TO MAXIMISE AESTHETICS AND MINIMISE IMPACTS. THIS MAY INVOLVE SUITABLE PLANTING WORKS.
5. A 'PERMIT TO WORK' MUST BE OBTAINED PRIOR TO THE COMMENCEMENT OF WORKS IF CONNECTING TO AN EXISTING MELBOURNE WATER WATERWAY.

SECTION B-B
NOT TO SCALE

CUT OFF WALL DETAIL
NOT TO SCALE

SL81 CENTRALLY PLACED

REFER TO NOTE 4

500 MIN.
(REFER TO NOTE 4)

150

MORTAR TO SEAL OFF UNDER PIPE

MORTAR PAD UNDER PLATE ROCK

PLATE ROCK

ROCKWORK TO FINISH Flush WITH SURROUNDING GROUND

500 MIN.

REFERENCES:
STANDARD DRAWINGS FOR SUBDIVISIONS IN GROWTH AREAS
OUTFALL STRUCTURE

APR 2011
Revision 1
Figure 019

Plot by: Gary Magno
Plot Date: 3:16 PM

* indicates signatures on original issue of drawing or last revision of drawing
NOTES:

1. AGRICULTURAL DRAIN TO BE LOCATED WITHIN THE APPROVED IMPERVIOUS LAYER AS SHOWN

EXISTING SUBGRADE
KERB PROFILE AS SPECIFIED
PAVEMENT COMPOSITION AS PER COUNCIL APPROVED DESIGN

50mm TOP SOIL DRESSING AS SPECIFIED

TYPE B FILL AS SPECIFIED

100mm CLASS 400 PERFORATED PVC AGRICULTURAL PIPE IN 20mm SIZE SCREENINGS, CLEAN SCORIA OR APPROVED EQUIVALENT.

25mm BEDDING

SUBSURFACE DRAIN
NOT TO SCALE

SUBSURFACE DRAIN IN EXPANSIVE SOILS
NOT TO SCALE

APPROVED IMPERVIOUS LOWER SUBBASE

EXISTING SUBGRADE
KERB PROFILE AS SPECIFIED
PAVEMENT COMPOSITION AS PER COUNCIL APPROVED DESIGN