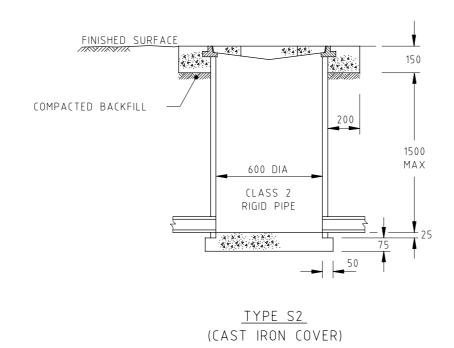
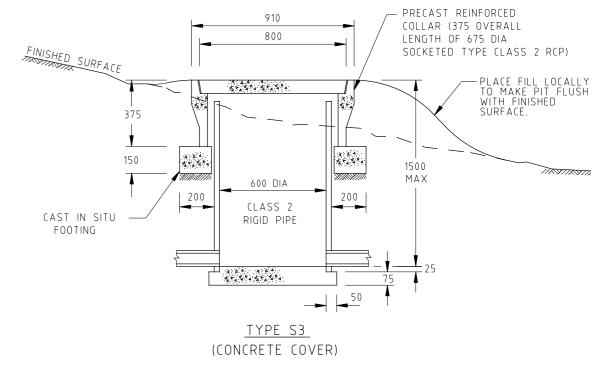


(CONCRETE COVER)





SUBSURFACE DRAINAGE PITS

NOTES:

- 1. DRAINAGE PITS ARE CONSIDERED TO BE RESTRICTED ACCESS LOCATIONS FOR CONSTRUCTION AND MAINTENANCE PURPOSES. VICROADS HAS DETERMINED THAT THE DRAINAGE PITS MEET THE FIRST THREE CONFINED SPACE CRITERIA. (ENCLOSED/PARTLY ENCLOSED; LIKLY TO BE ENTERED AT A NORMAL ATMOSPHERIC PRESSURE; LIMITED OR RESTRICTED ENTRY OR EXIT.) DESIGNERS SHALL CONSIDER THE FINAL CRITERIA AND DETERMINE WHETHER THE SPECIFIC INSTALLATION MEETS ALL FOUR CONFINED SPACE REQUIREMENTS. WHERE THE CONFINED SPACE REQUIRMENTS ARE DEEMED TO BE TRIGGERED, DESIGNERS SHALL LIAISE WITH THE RELEVANT 'VICROADS' REGIONAL OFFICE TO ACCEPT THIS DETERMINATION.
- 2. THESE PITS ARE NOT SUITABLE FOR USE IN OR WITHIN 300 mm OF THE TRAFFIC LANES.
- 3. CAST IRON COVERS SHALL BE CAPABLE OF SUPPORTING WITHOUT STRUCTURAL FAILURE THE CLASS C MINIMUM ULTIMATE LIMIT STATE DESIGN LOAD SPECIFIED IN AS 3996. PRECAST CONCRETE LIDS SHALL BE CAPABLE OF SUPPORTING A TEST LOAD OF 60 KN - IN ACCORDANCE WITH VICROADS INTERIM TEST METHOD FOR TEST LOADING PIT COVERS, LINTELS & LIDS.

ALTERNATIVE MATERIALS MAYBE CONSIDERED. HOWEVER, THEY NEED TO BE APPROVED AND MEET THE REQUIREMENTS OF AS 3996

- 4. WHERE SUBSURFACE PITS HAVE TO BE LOCATED IN TRAFFICKED AREAS, JUNCTION PITS SHALL BE USED WITH HEAVY DUTY COVERS.
- 5. JUNCTION PITS OR SIDE ENTRY PITS SHALL BE USED WHERE DEPTHS EXCEED 1500mm

- 6. ALL LIDS SHALL HAVE WEIGHT AND CAPACITY IMPRINTS, FOR CONCRETE LIDS. THE LETTERING SIZE SHALL BE 25mm WITH THE WORD 'DRAIN' IMPRINTED ABOVE WEIGHT AND CAPACITY.
- 7. ALL LIDS SHALL FIT FLUSH AND HAVE PROVISION FOR LIFTING. CONCRETE LIDS SHALL HAVE TWO LIFTING HOLES OF 25 x 50 MIN.
- 8. PITS ARE REQUIRED TO SUPPORT HYDROSTATIC PRESSURE, COMPACTION PRESSURE OF 25 kPa AND A VERTICAL LOAD OF 150 kN APPLIED EITHER ON THE COVER OR ON THE PAVEMENT ADJACENT TO THE PIT.
- 9. ALL BASE SLABS ARE CAST IN SITU.
- 10. CONCRETE FOR PRECAST CONCRETE LIDS SHALL BE GRADE N40 OR HIGHER COMPLYING WITH SECTION 610 OF VICROADS SPECIFICATION, EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1. CAST-IN-SITU CONCRETE SHALL BE NORMAL-CLASS N25 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING A2.
- 11. STEEL REINFORCEMENT SHALL COMPLY WITH SECTION 611 OF VICROADS' SPECIFICATION.

REFRENCES.

| 1. SUBSURFACE DRAIN - TYPES | SD 1601 |
|--|---------|
| 2. SUBSURFACE DRAIN - LOCATIONS | SD 1621 |
| 3. PAVEMENT DRAIN - TERMINALS | SD 1631 |
| 4. PAVEMENT DRAIN - LEGEND OF ALTERNATIVES | SD 1641 |
| 5 JUNCTION PIT - CONCRETE COVER | SD 1121 |
| 6. JUNCTION PIT - CAST IRON COVER | SD 1131 |
| 7 STEP IRONS | SD 1041 |

| d.dgn | E | | | | GENE |
|--------------|-------|-------|--------|--|--------------|
| 9 AM sd-1611 | D | R.F | 1/9/10 | AMENDMENT TO NOTES 2 & 4, PIT S4 REMOVED. | 1.AS |
| | С | J.K. | 1/7/05 | NOTE 2 AMENDED | 2.AS 3.AL |
| | В | J.C. | | AMENDMENT TO NOTE 10, CONCRETE STRENGTH GRADE |]^[|
| | Α | J. C. | 1/7/95 | GEN NOTE 7, NOTES 2,5,6,10 & 11. CLASS 2 RIGID PIPES ADDED. CONCRETE LID FOR TYPE S1 AND S4 PITS. | 1 |
| :59: | ISSUE | APP'D | DATE | AMENDMENT | 1 |

NERAL NOTES S 3996 ACCESS COVERS & GRATES AS 3600 CONCRETE STRUCTURES ALL DIMENSIONS ARE IN MILLIMETRES

TECHNICAL CONSULTING PROSPECT HILL ROAD CAMBERWELL, VICTORIA, 3124 PHONE (03) 9811 8355 FAX (03) 9811 8329 PROJ: sddgnnew

PRINCIPAL ROAD DESIGN ENGINEER

FILE: sd-1611d.dgn

√ vic roads

HOR NOT TO SCALE

STANDARD DRAWING SUBSURFACE DRAIN

PITS

ONTRACT NO. SHEET NO. DRAWING NO. D SD 1611