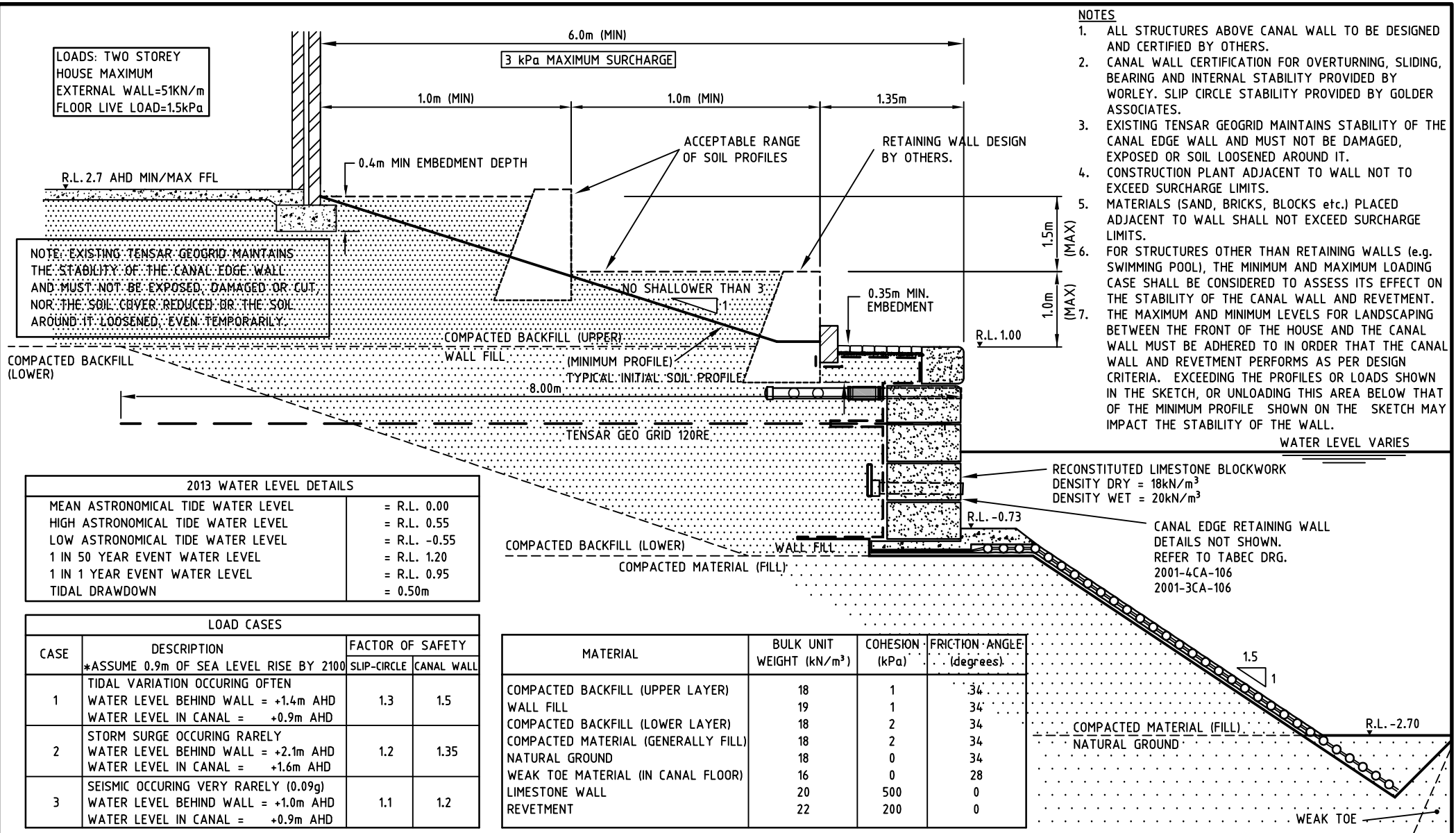


LOADS: TWO STOREY HOUSE MAXIMUM  
EXTERNAL WALL=51kN/m  
FLOOR LIVE LOAD=1.5kPa



NOTES

1. ALL STRUCTURES ABOVE CANAL WALL TO BE DESIGNED AND CERTIFIED BY OTHERS.
2. CANAL WALL CERTIFICATION FOR OVERTURNING, SLIDING, BEARING AND INTERNAL STABILITY PROVIDED BY WORLEY. SLIP CIRCLE STABILITY PROVIDED BY GOLDER ASSOCIATES.
3. EXISTING TENSAR GEOGRID MAINTAINS STABILITY OF THE CANAL EDGE WALL AND MUST NOT BE DAMAGED, EXPOSED OR SOIL LOOSENED AROUND IT.
4. CONSTRUCTION PLANT ADJACENT TO WALL NOT TO EXCEED SURCHARGE LIMITS.
5. MATERIALS (SAND, BRICKS, BLOCKS etc.) PLACED ADJACENT TO WALL SHALL NOT EXCEED SURCHARGE LIMITS.
6. FOR STRUCTURES OTHER THAN RETAINING WALLS (e.g. SWIMMING POOL), THE MINIMUM AND MAXIMUM LOADING CASE SHALL BE CONSIDERED TO ASSESS ITS EFFECT ON THE STABILITY OF THE CANAL WALL AND REVETMENT. THE MAXIMUM AND MINIMUM LEVELS FOR LANDSCAPING BETWEEN THE FRONT OF THE HOUSE AND THE CANAL WALL MUST BE ADHERED TO IN ORDER THAT THE CANAL WALL AND REVETMENT PERFORMS AS PER DESIGN CRITERIA. EXCEEDING THE PROFILES OR LOADS SHOWN IN THE SKETCH, OR UNLOADING THIS AREA BELOW THAT OF THE MINIMUM PROFILE SHOWN ON THE SKETCH MAY IMPACT THE STABILITY OF THE WALL.
7. WATER LEVEL VARIES

2013 WATER LEVEL DETAILS

|                                    |              |
|------------------------------------|--------------|
| MEAN ASTRONOMICAL TIDE WATER LEVEL | = R.L. 0.00  |
| HIGH ASTRONOMICAL TIDE WATER LEVEL | = R.L. 0.55  |
| LOW ASTRONOMICAL TIDE WATER LEVEL  | = R.L. -0.55 |
| 1 IN 50 YEAR EVENT WATER LEVEL     | = R.L. 1.20  |
| 1 IN 1 YEAR EVENT WATER LEVEL      | = R.L. 0.95  |
| TIDAL DRAWDOWN                     | = 0.50m      |

LOAD CASES

| CASE | DESCRIPTION   | FACTOR OF SAFETY |            |
|------|---|------------------|------------|
|      |   | SLIP-CIRCLE      | CANAL WALL |
| 1    | *ASSUME 0.9m OF SEA LEVEL RISE BY 2100<br>TIDAL VARIATION OCCURING OFTEN<br>WATER LEVEL BEHIND WALL = +1.4m AHD<br>WATER LEVEL IN CANAL = +0.9m AHD | 1.3              | 1.5        |
| 2    | STORM SURGE OCCURING RARELY<br>WATER LEVEL BEHIND WALL = +2.1m AHD<br>WATER LEVEL IN CANAL = +1.6m AHD  | 1.2              | 1.35       |
| 3    | SEISMIC OCCURING VERY RARELY (0.09g)<br>WATER LEVEL BEHIND WALL = +1.0m AHD<br>WATER LEVEL IN CANAL = +0.9m AHD                                     | 1.1              | 1.2        |

| MATERIAL                            | BULK UNIT WEIGHT (kN/m <sup>3</sup> ) | COHESION (kPa) | FRICTION ANGLE (degrees) |
|-------------------------------------|---------------------------------------|----------------|--------------------------|
| COMPACTED BACKFILL (UPPER LAYER)    | 18                                    | 1              | 34                       |
| WALL FILL                           | 19                                    | 1              | 34                       |
| COMPACTED BACKFILL (LOWER LAYER)    | 18                                    | 2              | 34                       |
| COMPACTED MATERIAL (GENERALLY FILL) | 18                                    | 2              | 34                       |
| NATURAL GROUND                      | 18                                    | 0              | 34                       |
| WEAK TOE MATERIAL (IN CANAL FLOOR)  | 16                                    | 0              | 28                       |
| LIMESTONE WALL                      | 20                                    | 500            | 0                        |
| RETVEMENT                           | 22                                    | 200            | 0                        |

| No. | DATE    | DRN | APP. | AMENDMENT             |
|-----|---------|-----|------|-----------------------|
| 0   | 11.9.13 | ARH | .    | BUILDING LEVEL RAISED |
| A   | 4.1.06  | ARH | .    | ISSUED FOR APPROVAL   |

|          |         |
|----------|---------|
| DESIGNED | CLIENT  |
| CHECKED  |         |
| DRAWN    | PROJECT |
| CHECKED  |         |

CLIENT  
**CEDAR WOODS**

PROJECT  
**MARINERS COVE  
STAGE 6CA**



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|       |                                   |        |              |
|-------|-----------------------------------|--------|--------------|
| TITLE | <b>CANAL WALL DESIGN CRITERIA</b> |        |              |
| SCALE | 1:50                              | SKETCH | 2001-6CA-107 |
| ISSUE | 0                                 |        |              |