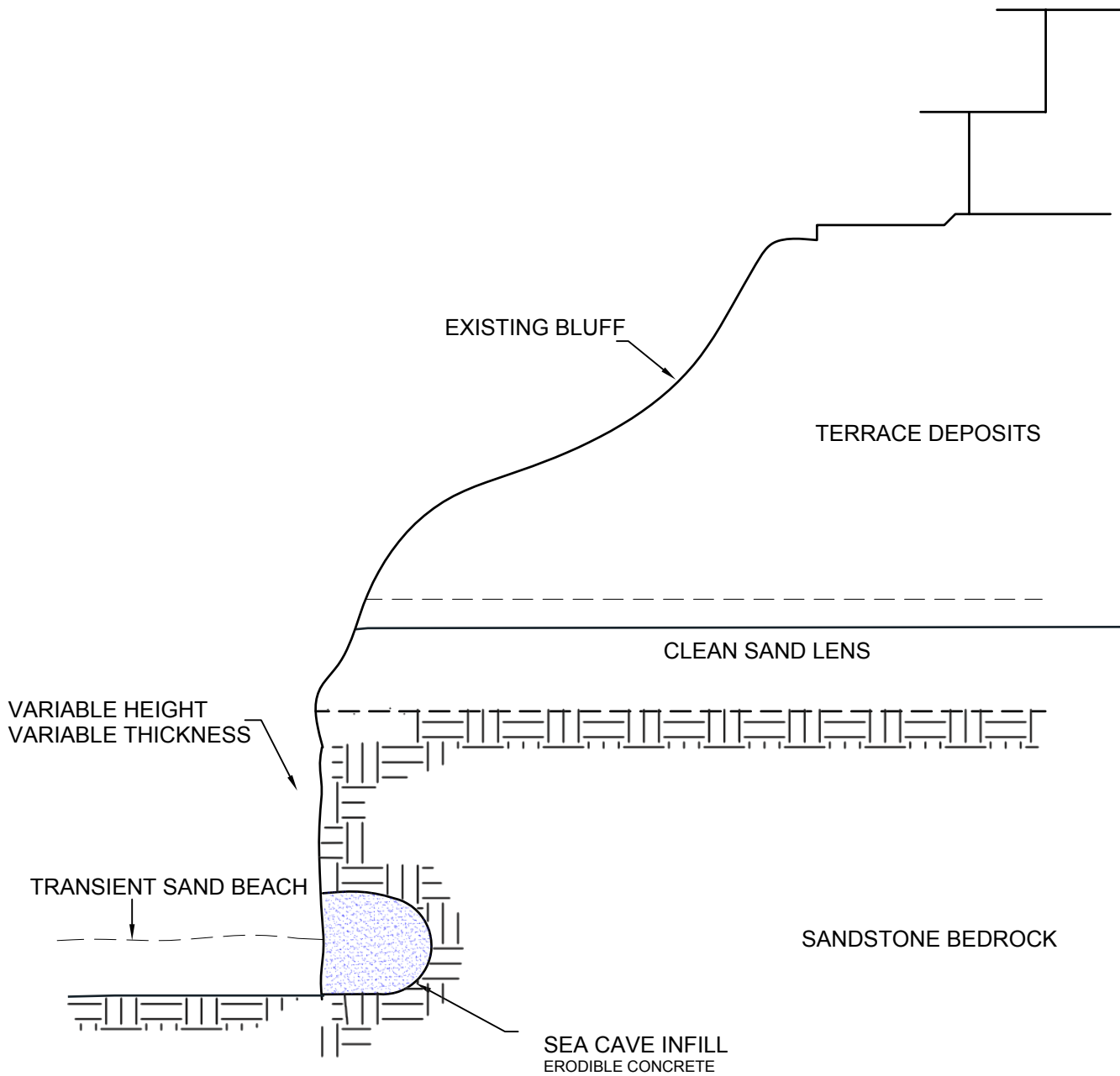


APPENDIX B

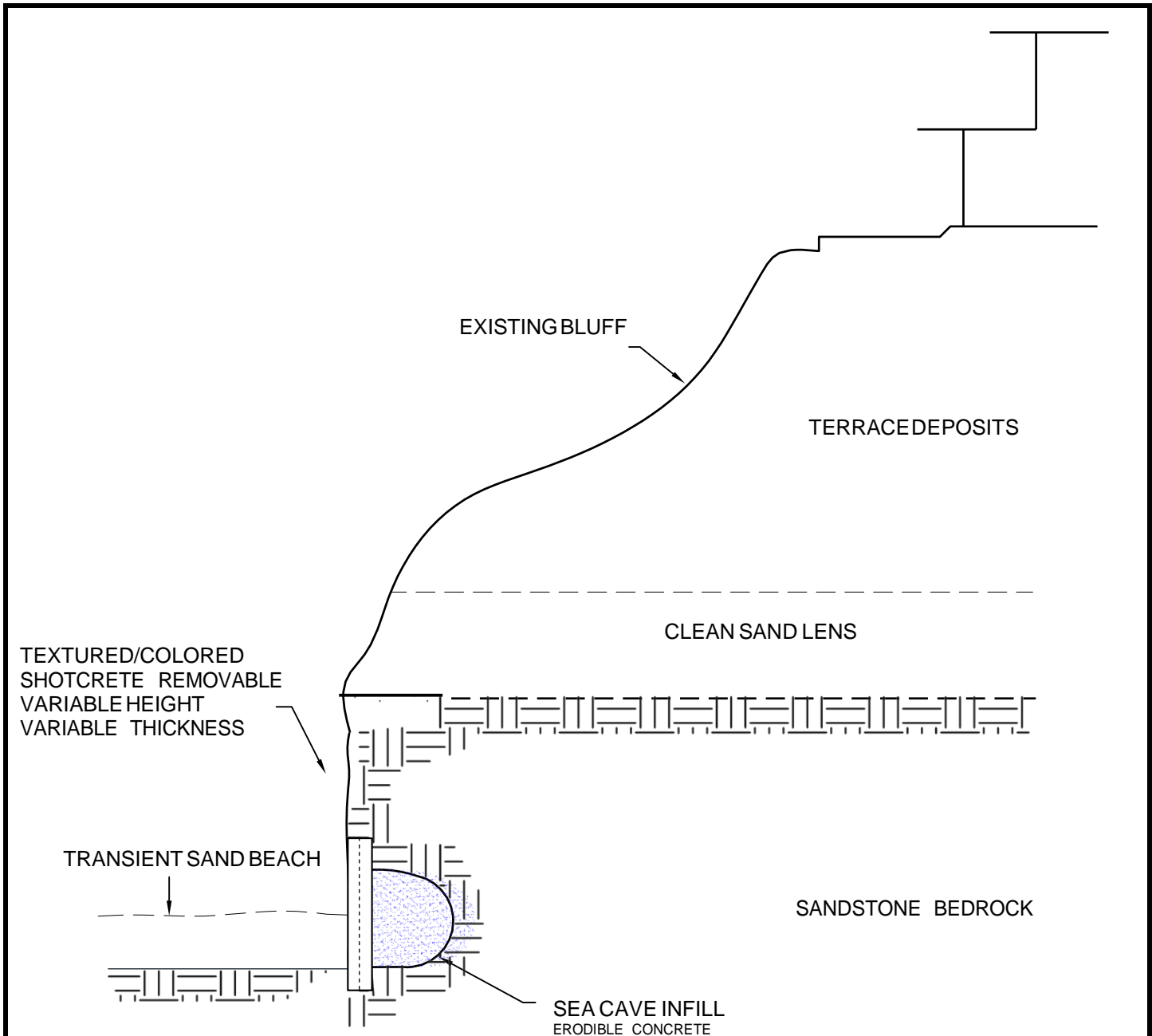
PREFERRED COASTAL BLUFF RETENTION DESIGNS



NOTES:

1. GEOTECHNICAL REPORT. (Required)
2. NOTCHED TO BEDROCK (4 DIRECTIONS)
3. MINIMIZE ALTERATION OF BLUFF-FACE OR MIMIC EXISTING.
4. INCLUDE MONITORING FOR FUTURE MAINTENANCE AND REPAIR.
5. LOCATED AS LANDWARD AS POSSIBLE
6. NO SAND OR PUBLIC RECREATION FEES ASSESSED WITH THIS SOLUTION
7. ADDITIONAL ERODIBLE CONCRETE MAY BE REQUIRED AFTER SETTLING TO ASSURE MARGIN CONTACT WITH BLUFF

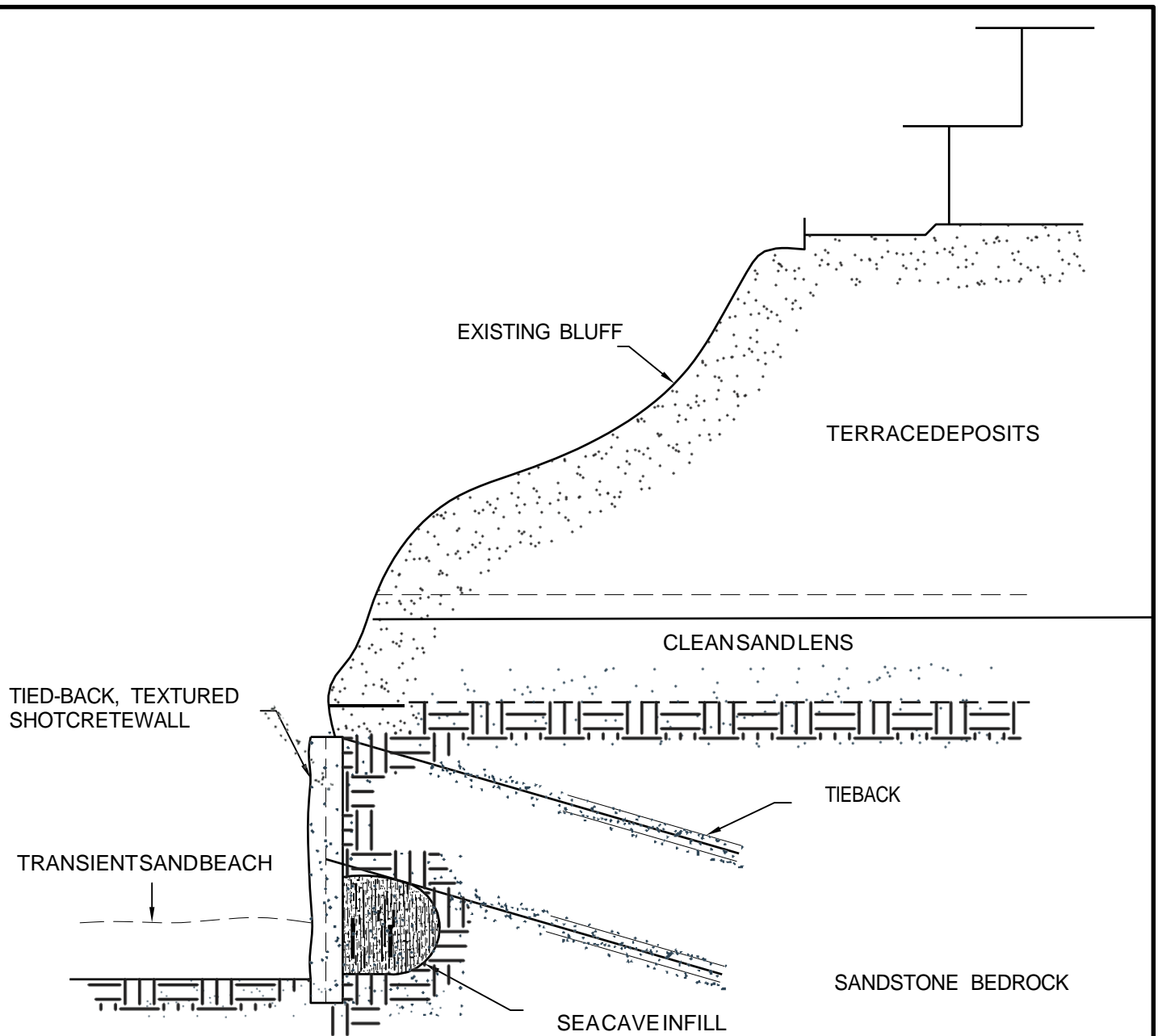
Seacave/Notch Infill



NOTES

1. FACTOR OF SAFETY NEAR 1.0.
2. GEOTECHNICAL REPORT
3. STRUCTURAL CALCULATIONS
4. LOCATED AS FAR LANDWARD AS POSSIBLE
5. MINIMIZE ALTERATION OF BLUFF-FACE OR MIMIC EXISTING.
6. INCLUDE DETAILED METHODOLOGY FOR MONITORING AND MAINTENANCE OVER THE LIFE OF THE DEVICE.
7. MINIMIZE THE NEED FOR ANY MAINTENANCE THAT NECESSITATES ADDITIONAL SEAWARD ENCROACHMENT OF THE DEVICE.
8. BLUFF FACE TO HAVE "NATURAL COLOR AND TEXTURE" (SBMC 17.62)

Seacave/Notch Infill with Concrete Facing



NOTES

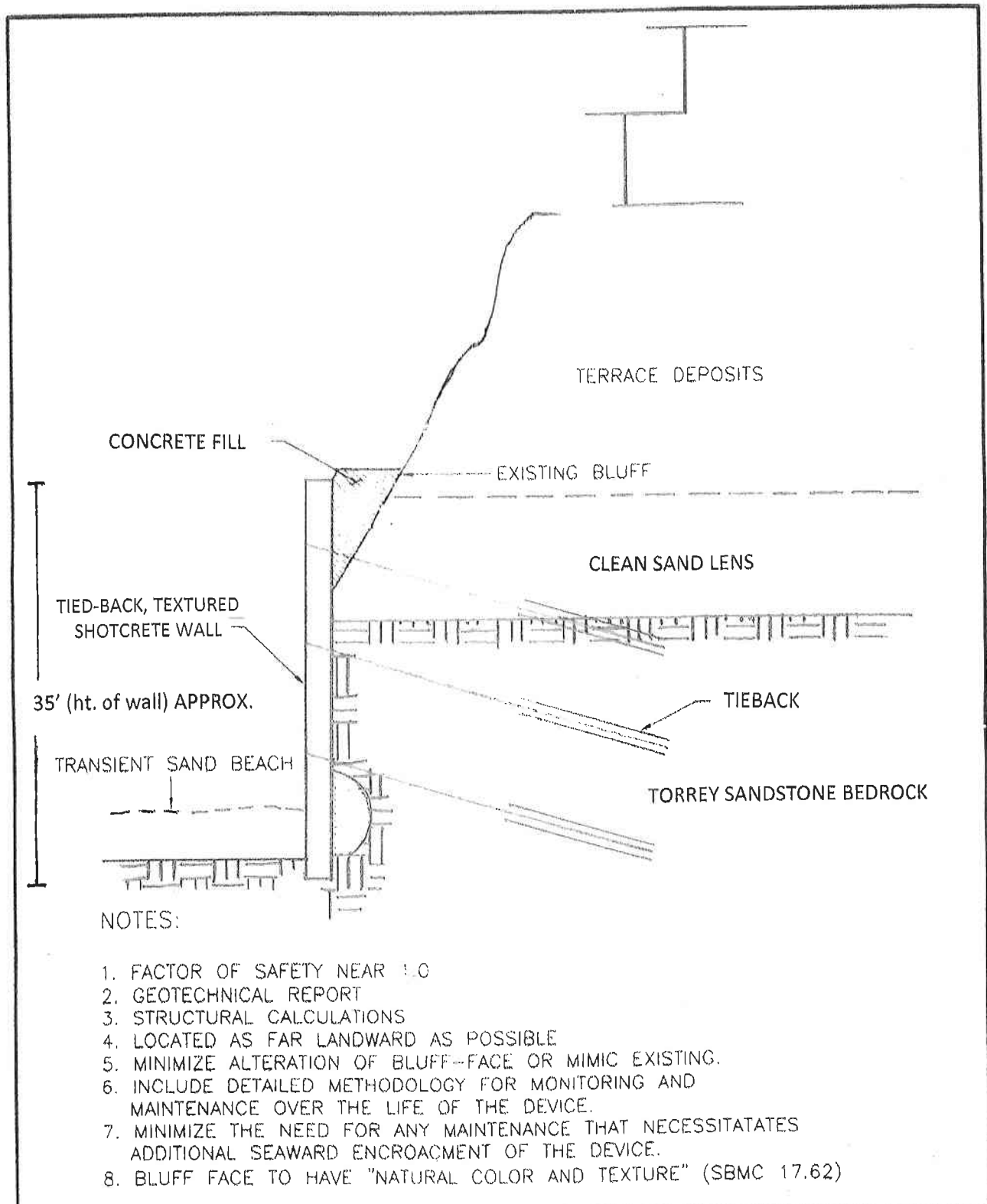
1. FACTOR OF SAFETY NEAR 1.0.
2. GEOTECHNICAL REPORT
3. STRUCTURAL CALCULATIONS
4. LOCATED AS FAR LANDWARD AS POSSIBLE
5. MINIMIZE ALTERATION OF BLUFF-FACE OR MIMIC EXISTING.
6. INCLUDE DETAILED METHODOLOGY FOR MONITORING AND MAINTENANCE OVER THE LIFE OF THE DEVICE.
7. MINIMIZE THE NEED FOR ANY MAINTENANCE THAT NECESSITATES ADDITIONAL SEAWARD ENCROACHMENT OF THE DEVICE.
8. BLUFF FACE TO HAVE "NATURAL COLOR AND TEXTURE" (SBMC 17.62)

Infill/Bluff Stabilization - Lower Seawall

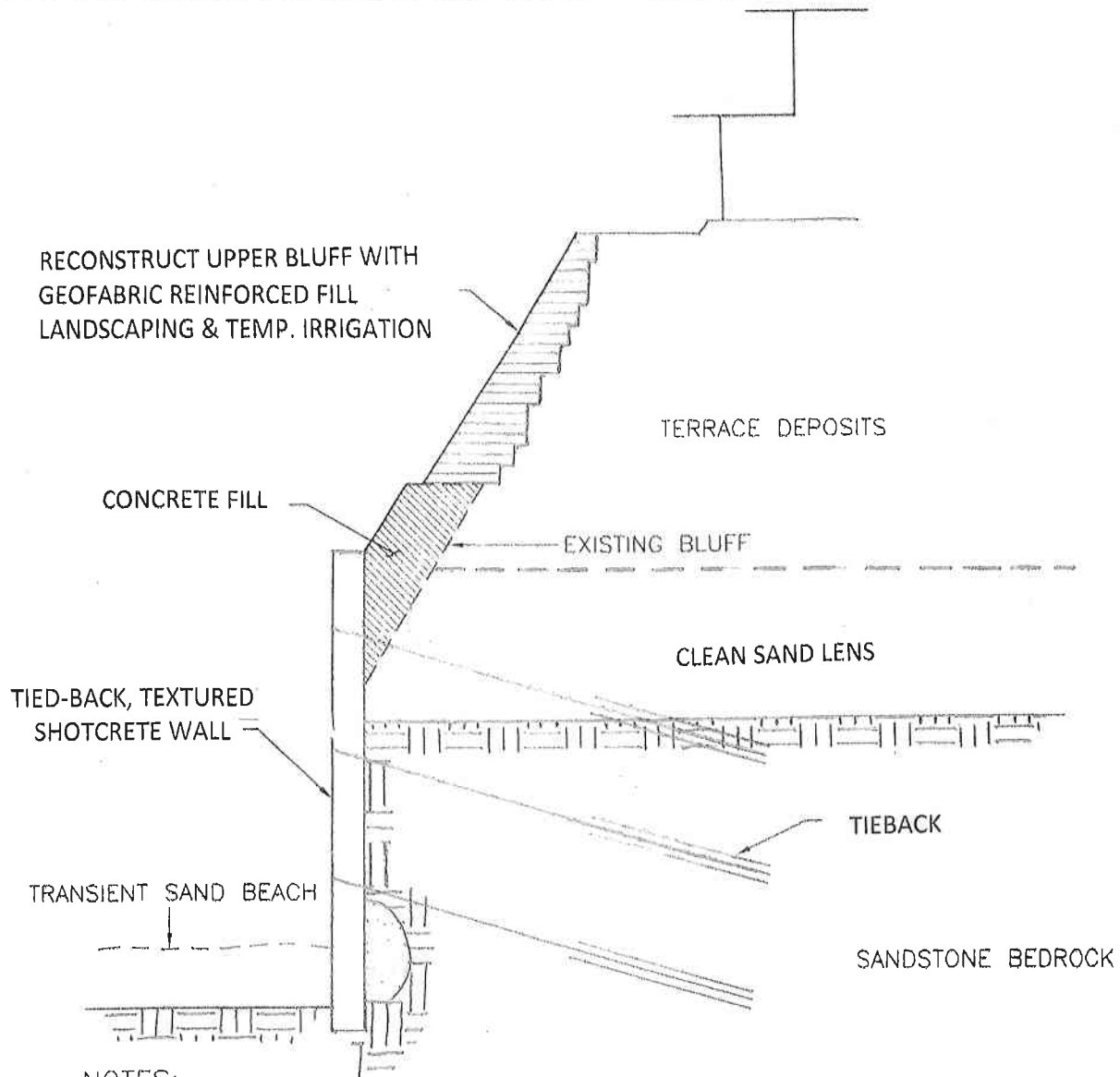
City of Solana Beach

Approved by CCC on 01/09/14 (LUPA)

FIGURE NO. 1C



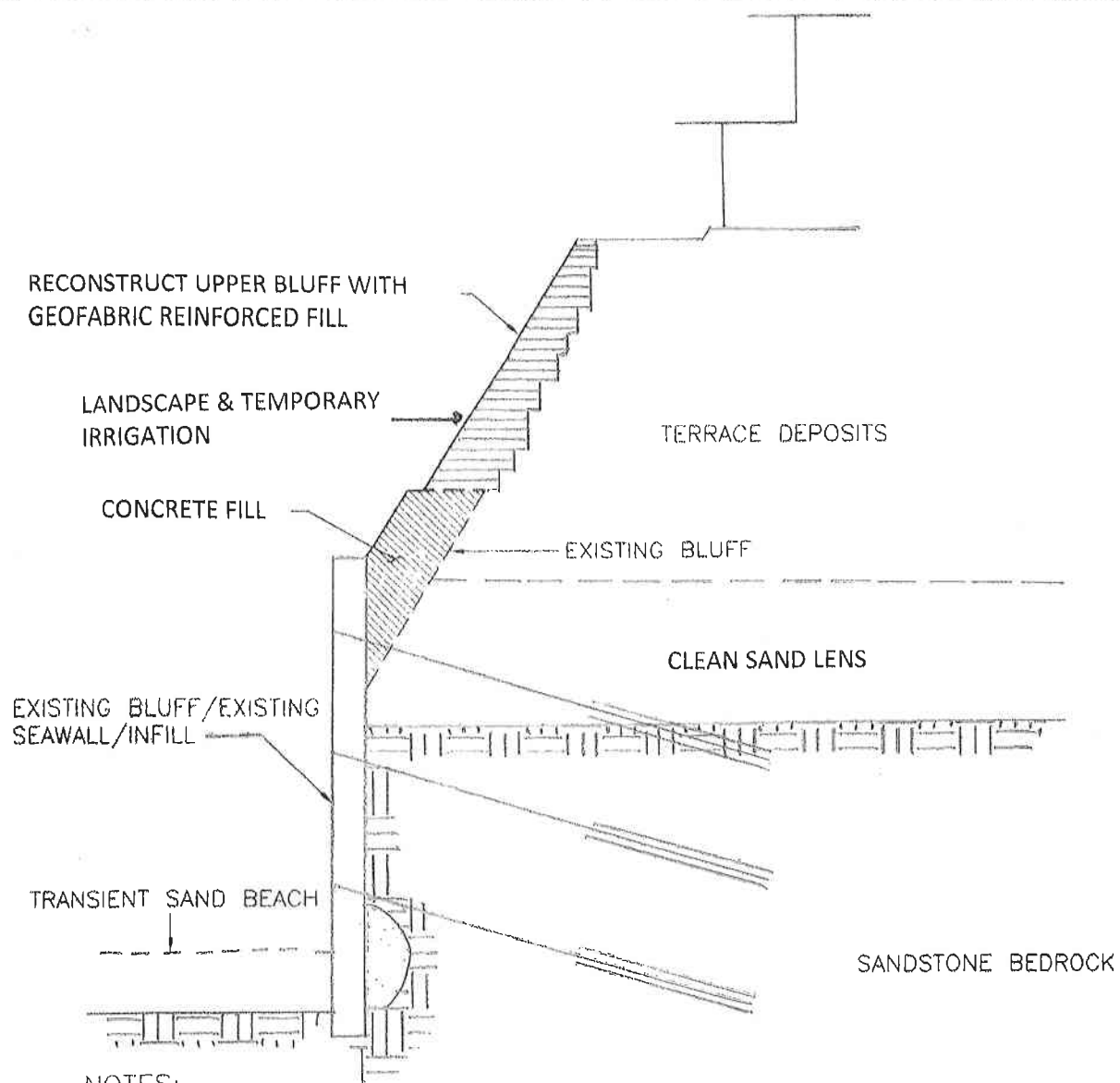
Preferred Solution – Higher Seawall/Clean Sand Lens Encapsulation



NOTES:

1. FACTOR OF SAFETY NEAR 1.0
2. GEOTECHNICAL REPORT
3. STRUCTURAL CALCULATIONS
4. LOCATED AS FAR LANDWARD AS POSSIBLE
5. MINIMIZE ALTERATION OF BLUFF-FACE OR MIMIC EXISTING.
6. INCLUDE DETAILED METHODOLOGY FOR MONITORING AND MAINTENANCE OVER THE LIFE OF THE DEVICE.
7. MINIMIZE THE NEED FOR ANY MAINTENANCE THAT NECESSITATES ADDITIONAL SEAWARD ENCROACMENT OF THE DEVICE.
8. BLUFF FACE TO HAVE "NATURAL COLOR AND TEXTURE" (SBMC 17.62)

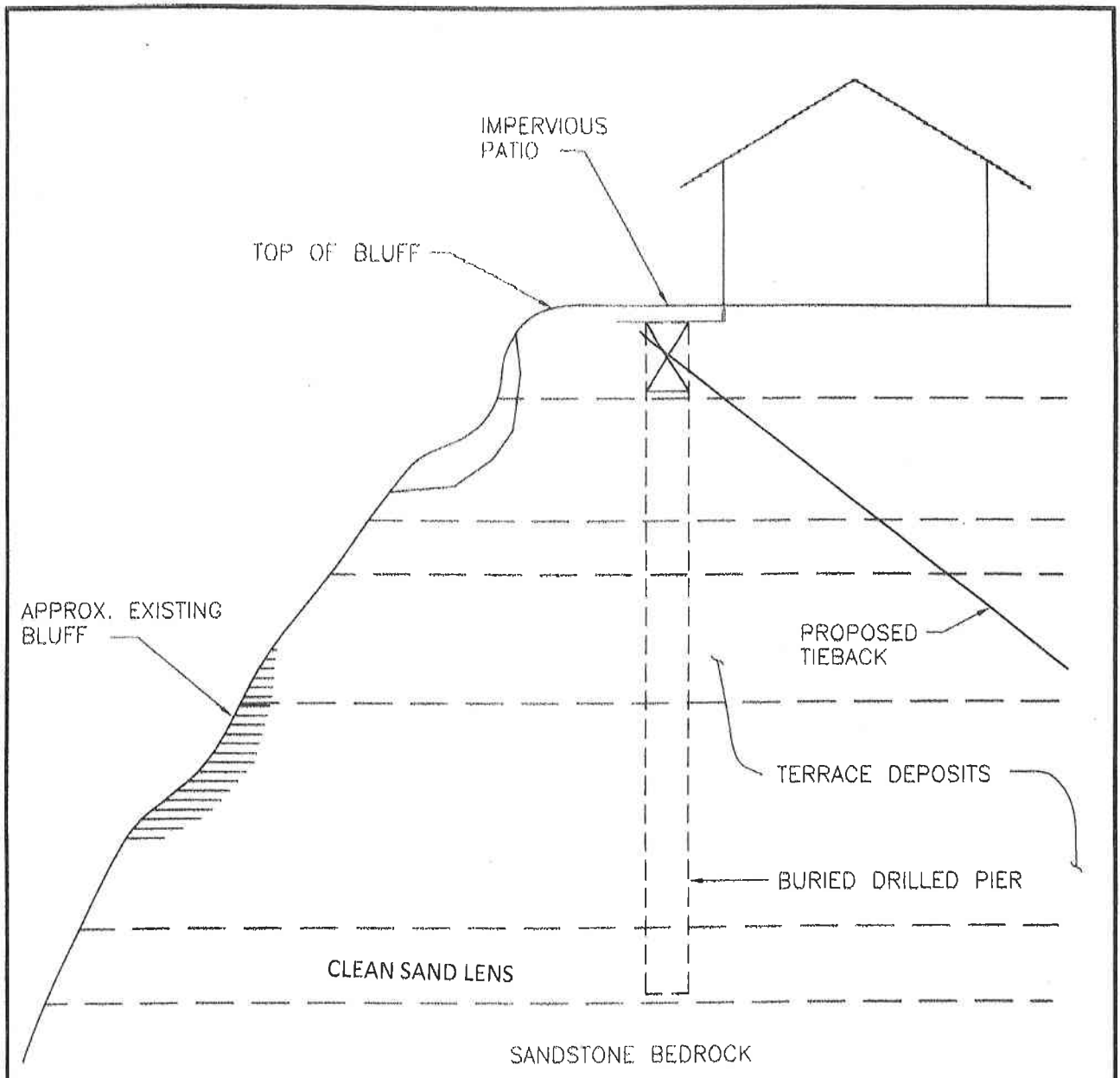
Preferred Solution - Seawall and Upper Bluff Repair



NOTES:

1. FACTOR OF SAFETY NEAR 1.0
2. GEOTECHNICAL REPORT
3. STRUCTURAL CALCULATIONS
4. LOCATED AS FAR LANDWARD AS POSSIBLE
5. MINIMIZE ALTERATION OF BLUFF-FACE OR MIMIC EXISTING.
6. INCLUDE DETAILED METHODOLOGY FOR MONITORING AND MAINTENANCE OVER THE LIFE OF THE DEVICE.
7. MINIMIZE THE NEED FOR ANY MAINTENANCE THAT NECESSITATES ADDITIONAL SEAWARD ENCROACMENT OF THE DEVICE.
8. BLUFF FACE TO HAVE "NATURAL COLOR AND TEXTURE" (SBMC 17.62)

Preferred Solution - Upper Bluff Repair



NOTES:

1. FACTOR OF SAFETY NEAR 1.0
2. GEOTECHNICAL REPORT
3. STRUCTURAL CALCULATIONS
4. LOCATED AS FAR LANDWARD AS POSSIBLE

Caisson & Tie-Backs