1. The project objective is to recover, transport, convey, and place on the beach approximately 75,000 CY of sand. Beach restoration in the Kaanapali Littoral Cell (LCC) would use approximately 50,000 cubic yards of sand and beach enhancement in the Kaanapali Littoral Cell would use approximately 25,000 cubic yards of sand.

2. The project owner is the State of Hawaii, Department of Land and Natural Resources (DLNR). The engineering consultant is Sea Engineering, Inc. (Seaconsult).

3. The topographic beach survey was conducted by Alana Surveying and Geomatics on 1/5/2020 and 8/29/2020. Rectangular coordinates are based on NAAD, Hawaii State Plane, Zone 2 (US survey feet).

4. The project shoreline is very dynamic with rapid changes in sand volume and beach width.

5. Elevations are referenced to mean lower low water (MLLW). Altimeters are referenced to NGS CRF1 and are averaged to reflect the true south.

6. The contractor shall use the vertical and horizontal controls specified at monuments shown on drawing C-2.

7. All distances, elevations, and coordinates are in feet, unless noted otherwise.

8. The contractor shall verify and check all dimensions and details shown on the drawings prior to the start of construction. Any discrepancy shall be immediately brought to the attention of the engineer for direction.

9. Work incidental to the contract and necessary to complete the project, although not specifically referred to on the contract documents, shall be furnished and performed by the contractor.

10. The contractor shall make arrangements for utilities such as electricity, water, etc., required for his operations and all costs shall be borne by the contractor.

11. No contractor shall perform any construction operation so as to cause falling rocks, soil, or debris in any form to fall, slide, or flow onto adjoining properties, streets, or natural watercourses. Should such violations occur, the costs incurred for any remedial action shall be payable by the contractor.

12. The contractor shall be responsible for the clearing and removal of all sand and debris generated by his construction work and deposited and accumulating on roads and other areas.

13. The contractor shall be responsible for maintaining the project area in a clean and orderly manner, and for clearing and removal of all debris generated by his construction work.

14. All existing utilities, roads, walkways, walls, and buildings, whether or not shown on the drawings, shall be protected from damage at all times during construction. Any damage to them shall be repaired by the contractor at his expense.

15. The contractor shall notify all agencies to verify the actual location of all utilities in the project area prior to excavation. The contractor shall notify the one call center at (800) 423-7887 or (811) at least five (5) working days prior to the start of excavation. Personal injury resulting from contact with existing utilities shall be the contractor's responsibility.

16. All project work, including demolition, stockpiling, and grading, shall be performed in compliance with applicable federal and local laws and regulations regarding quality and water pollution control. The contractor/owner/developer shall be responsible for compliance with the applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, of Title 11, Hawaii Administrative Rules of the State Department of Health. Best management practices shall be employed at all times during construction.

17. The contractor shall observe and comply with all federal, state, and local laws required for the protection of public health and safety and environmental quality.

18. The contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the air pollution control standards and regulations of the State Department of Health.

19. All construction work shall implement measures to ensure that the discharge of pollutants from the construction site will be reduced to the maximum extent practicable and will not cause or contribute to an exceedance of water quality standards.

20. No blasting shall be allowed on this project.

21. The contractor, at his own expense, shall keep the project area and its surrounding areas free from rubber, dust, mud, erosion, etc. The work shall be in conformance with the air and water pollution control standards and regulations of the State Department of Health.

22. The job site must be left in a safe, secure condition at the end of each construction work day. Clean up and remove from the job site all rubber and maintain the premises in a clean orderly condition at all times.

23. All existing trees, shrubs, and surrounding vegetation shall be preserved and protected as far as practical, removal of any trees shall require approval by the engineer. Any damaged vegetation shall be replaced by the contractor at his expense.

24. The DLNR shall delegate the contractor as the authorized representative to submit all necessary documents and reports as required by the Department of the Interior as to the Department for the State.

25. The contractor shall maintain the streets, sidewalks, and other public rights of way in a clean, safe, and usable condition. All spills of sand, rock, or construction debris shall be removed immediately. All areas adjacent to designated work areas shall be maintained in a clean, safe, and usable condition.

26. The contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this Project, including public safety in the vicinity of work areas. The contractor shall not be responsible for and shall not be liable for any damages to any person or property caused by the contractor's negligence or failure to comply with the terms and conditions of this contract.

27. Where pedestrian pathways exist, they shall be maintained in passable condition or other facilities for pedestrians shall be provided. Temporary accessways shall be accessible for ADA standards for accessible design chapter 2, sections 2013.1 and 206.1.

28. The public beach area shall remain open to the maximum extent possible during the construction period, provided and maintain pedestrian access to the beach area throughout the construction period.

29. Upon completion of construction the entire job site shall be cleaned of all rubber and debris.

30. Should historic remains such as artifacts, burial, or concentrations of shell or charcoal be encountered during construction activities, work shall cease immediately in the immediate vicinity of the find. The contractor shall immediately contact the historical preservation division (808-692-4050), which will assess the significance of the find and recommends appropriate mitigation measures, if necessary.
The project consists of the following general work tasks:

A) Recovery of up to 75,000 cu yd of sand from offshore deposits using mechanical dredging techniques.
B) Transport of dredge sand to offloading locations via scow.
C) Transport of dredge sand from scow to shoreline.
D) Transport of the sand along the shoreline to the designated placement areas, and
E) Final shaping of the sand to the design beach profile.
2. Topographic survey of Kaanapali Beach conducted by Ailana Surveying and Geomatics (January 2020).
3. Offshore bathymetric contours based on USGS NWP LiDAR data (2013).
4. Azimuths and coordinates are referred to NAD 83, Hawaii State Plane Zone 2. Azimuths are measured clockwise from South.
5. Distances and elevations are measured in feet.
6. Elevations are referred to Mean Lower Low Water (MLLW).
NOTES:

1. TOPOGRAPHIC BASE MAP PRODUCED BY SEA ENGINEERING, INC. (OCTOBER 2020).

2. TOPOGRAPHIC SURVEY OF KAANAPALI BEACH CONDUCTED BY ALANA SURVEYING AND GEOMATICS (JANUARY 2020).


4. AZIMUTHS AND COORDINATES ARE REFERRED TO NAD 83, HAWAII STATE PLANE ZONE 2, FEET. AZIMUTHS ARE MEASURED CLOCKWISE FROM SOUTH.

5. DISTANCES AND ELEVATIONS ARE MEASURED IN FEET.

6. ELEVATIONS ARE REFERRED TO MEAN LOWER LOW WATER (MLW).
NOTES:
1. THE SAND RECOVERY AREA IS DELINEATED BY STRAIGHT LINES BETWEEN SUCCESSIVE POINTS B1-1 THROUGH B1-5.
2. THE 11-ACRE SAND DEPOSIT IS 7 TO 26 FEET THICK AND CONTAINS AN ESTIMATED 150,000 CUBIC YARDS OF SAND.
3. ELEVATION CONTOURS ARE IN FEET ABOVE LOWER LOW WATER (MLLW).
4. ALL SAND RECOVERY WORK SHALL BE CONTAINED WITHIN THE DESIGNATED RECOVERY AREA. NO DREDGING SHALL BE CONDUCTED OUTSIDE OF THE DESIGNATED AREA.
5. COORDINATES FOR POINTS B1-1 THROUGH B1-5 ARE LISTED IN THE BELOW TABLE. COORDINATE SYSTEM IS NAVD88 HAWAII STATE PLANE, ZONE 2, FEET.

<table>
<thead>
<tr>
<th>POINT</th>
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<td>B1-4</td>
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</tr>
<tr>
<td>B1-5</td>
<td>1629745</td>
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</tr>
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</table>
6. SAND IS TO BE RECOVERED FROM SAND DEPOSIT USING DREDGE WITH ENVIRONMENTAL CLAMHELL BUCKET. SAND WILL BE PLACED IN A SCOW FOR TRANSPORT TO ONE OF TWO UNLOADING AREAS. UNLOADING AREAS ARE SHOWN ON DRAWING C-7.
7. THE DREDGE BARGE SHALL BE SECURELY ANCHORED TO THE BOTTOM TO PREVENT ITS MOVEMENT UNDER ALL REASONABLY EXPECTED WAVE CONDITIONS. ANCHORS MAY CONSIST OF MASS GRAVITY WEIGHTS OR ANCHORS INSERTED OR DRILLED INTO THE BOTTOM.
8. ANCHORS FOR SAND RECOVERY BARGE SHALL BE PLACED ONLY WITHIN DESIGNATED CIRCLES WITH 100 FT RADIUS AS SHOWN.
9. ANCHOR CIRCLE CENTER COORDINATES ARE GIVEN IN THE FOLLOWING TABLE.

<table>
<thead>
<tr>
<th>POINT</th>
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<tr>
<td>A1-5</td>
<td>1629020</td>
<td>215170</td>
</tr>
</tbody>
</table>
10. ALL ANCHORS SHALL BE COMPLETELY REMOVED AT THE COMPLETION OF THE WORK.
NOTES:
1. ELEVATION CONTOURS ARE IN FEET MEAN LOWER LOW WATER (MLLW).
2. ALL OFFLOADING EQUIPMENT MUST BE CONSIDERED WITHIN THE DESIGNATED 100-FOOT-WIDE OFFLOADING AREA. NO OFFLOADING EQUIPMENT SHALL COMMENCE IN CONTACT WITH THE SEAFLOOR OUTSIDE THE DESIGNATED AREAS.
3. OFFLOADING CORRIDOR BOUNDARIES ARE DELINEATED BY STRAIGHT LINES BETWEEN SUCCESSIVE POINTS B2-1 THROUGH B2-4 FOR THE NORTH OFFLOADING AREA AND POINTS B3-1 THROUGH B3-4 FOR THE SOUTH OFFLOADING AREA. POINTS B2-1 THROUGH B2-4 AND B3-1 THROUGH B3-4 ARE LISTED IN THE BELOW TABLE. COORDINATE SYSTEM IS NAD83 HAWAII STATE PLANE ZONE 2, FEET.

<table>
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<tr>
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</tr>
<tr>
<td>B3-4</td>
<td>1631305</td>
<td>210310</td>
</tr>
</tbody>
</table>

4. THE SCOW SHALL BE SECURELY ANCHORED TO THE BOTTOM TO PREVENT ITS MOVEMENT DURING OFFLOADING OPERATIONS. ANCHORS MAY CONSIST OF MASS GRAVITY WEIGHTS OR ANCHORS INSERTED OR DRILLED INTO THE BOTTOM. CONTRACTOR SHALL ENSURE THAT RIDGE IS SUSPENDED AND DOES NOT CONTACT BOTTOM.

5. ANCHORS FOR SCOW/OFFLOADING AREAS SHALL BE PLACED ONLY WITHIN DESIGNATED CIRCLES HAVING 50 FT DIAMETER AS SHOWN. CONTRACTOR SHALL VERIFY PRIOR TO ANCHOR PLACEMENT THAT SUBSTRATE IN ANCHOR CIRCLES IS FREE OF CORAL, SEA GRASS, AND ANY OTHER PROTECTED SPECIES.

6. ANCHOR CIRCLE CENTER COORDINATES ARE GIVEN IN THE FOLLOWING TABLE.

<table>
<thead>
<tr>
<th>POINT</th>
<th>EASTING Coordinate</th>
<th>northing Coordinate</th>
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<tr>
<td>A4-1</td>
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7. ALL ANCHORS SHALL BE COMPLETELY REMOVED AT THE COMPLETION OF THE WORK. ANCHORS (CANTED) INTO THE BOTTOM MAY BE CUT OFF FLUSH WITH THE BOTTOM SURFACE.
NOTES:

1. SAND SHALL BE PLACED IN MAXIMUM 100-FOOT LONG INCREMENTS. BEACH PROFILES SHALL BE SURVEYED IMMEDIATELY PRIOR TO AND FOLLOWING SAND PLACEMENT TO VERIFY THE QUANTITY OF IN-PLACE SAND (SEE SPECIFICATION SECTION 02260). CROSS SECTORS, DRAWINGS ARE SHOWN ON C-12 TO C-13.

2. SAND SHALL BE PLACED TO THE LINES AND GRADES SHOWN ON THE CROSS-SECTIONS (DRAWINGS C-12 TO C-13). PLACED SAND SHALL SLOPE DOWN TO EXISTING GRADE AT A SLOPE OF 1:34.

3. EQUIPMENT USED TO MOVE AND DEPOSIT THE SAND TO THE DESIGN BEACH PROFILES SHALL BE THE SMALLEST PRACTICAL EYES. EQUIPMENT IN ORDER TO MINIMIZE NOISE AND INCONVENIENCE TO ADJACENT PROPERTIES.

4. NO EQUIPMENT SHALL OPERATE IN THE WATER OR BELOW THE MHWN ELEVATION (+2,25 FEET).

5. THE LANDWARD CONSTRUCTION EASEMENT BOUNDARY SHALL BE THE SEAWARD SIDE OF THE VEGETATION LINE OR HARD FEATURES SUCH AS WALLS, CONCRETE SLABS, PAVILIONS, ETC.

6. THE SEAWARD CONSTRUCTION EASEMENT BOUNDARY BETWEEN NB 3+63 AND NB 13+91 SHALL BE 20 FEET SEAWARD OF THE FILL FOOTPRINT.
1. Sand shall be placed in maximum 100-foot long increments. Beach profiles shall be surveyed immediately prior to and following sand placement to verify the quantity of in-place sand (see specification section 02060). Cross-sectional drawings are shown on C-14 to C-18.

2. Sand fill shall be placed to the lines and grades shown on the cross-sections (drawings C-14 to C-18). Placed sand shall slope down to existing grade at a slope of 1V:0H on the seaward side and 1V:3H on the landward side.

3. Equipment used to move and distribute the sand to the design beach profiles shall be the smallest practicable equipment in order to minimize noise and inconvenience to adjacent properties.

4. No equipment shall operate in the water or below the Maunawili elevation (+22.5 feet).

5. The seaward construction easement boundary shall be the seaward side of the vegetation line or hard features such as walls, concrete slabs, pavilions, etc.

6. The seaward construction easement boundary between HLC 0400 and HLC 1740 shall be 20 feet seaward of the design beach toe fill line.
NOTES:

1. SAND SHALL BE PLACED IN MAXIMUM 100-FOOT LONG INCREMENTS. BEACH PROFILE SHALL BE SUPERFICIAL IMMEDIATELY PRIOR TO AND FOLLOWING SAND PLACEMENT TO VERIFY THE QUANTITY OF IN-PLACE SAND (SEE SPECIFICATION SECTION 02060). CROSS-SECTIONAL DRAWINGS ARE SHOWN IN C-14 TO C-18.

2. SAND FILL SHALL BE PLACED TO THE LINES AND GRADES SHOWN ON THE CROSS-SECTIONS (DRAWINGS C-14 TO C-18). PLACED SAND SHALL SLOPE DOWN TO EXISTING GRADE AT A SLOPE OF 1V:2H ON THE SEAWARD SIDE AND 1V:3H ON THE LANDWARD SIDE.

3. EQUIPMENT USED TO MOVE AND DISTRIBUTE THE SAND TO THE DESIGNED BEACH PROFILE SHALL BE THE SMALLEST PRACTICABLE EQUIPMENT IN ORDER TO MINIMIZE NOISE AND INCONVENIENCE TO ADJACENT PROPERTIES.

4. NO EQUIPMENT SHALL OPERATE IN THE WATER OR BELOW THE HABitable ELEVATION (+2.5 FEET).

5. THE LANDWARD CONSTRUCTION EASEMENT BOUNDARY SHALL BE THE SEAWARD SIDE OF THE VEGETATION LINE OR HARD FEATURES SUCH AS WALLS, CONCRETE SLABS, PAVILIONS, ETC.

6. THE SEAWARD CONSTRUCTION EASEMENT BOUNDARY BETWEEN HLC 184.00 AND HLC 354.03 SHALL BE 20 FEET SEAWARD OF THE DESIGN BEACH FILL LINE.

(See Note 6)
NOTES:

1. SAND SHALL BE PLACED IN MAXIMUM 100-FOOT LONG INCREMENTS. BEACH PROFILES SHALL BE SURVEYED IMMEDIATELY PRIOR TO AND FOLLOWING SAND PLACEMENT TO VERIFY THE QUANTITY OF IN-PLACE SAND (SEE SPECIFICATION 2020). CROSS SECTORAL DRAWINGS ARE SHOWN ON C-19 TO C-21.

2. SAND FILL SHALL BE PLACED TO THE LINES AND GRADES SHOWN ON THE CROSS-SECTIONS (DRAWINGS C-19 TO C-21). PLACED SAND SHALL SLOPE DOWN TO EXISTING GRADE AT A SLOPE OF 1:V:3H.

3. EQUIPMENT USED TO MOVE AND DISTRIBUTE THE SAND TO THE DESIGN BEACH PROFILES SHALL BE THE SMALLEST PRACTICABLE EQUIPMENT IN ORDER TO MINIMIZE NOISE AND INCONVENIENCE TO ADJACENT PROPERTIES.

4. NO EQUIPMENT SHALL OPERATE IN THE WATER OR BELOW THE MINIMUM ELEVATION (+2.25 FEET).

5. THE SEAWARD CONSTRUCTION EASEMENT BOUNDARY SHALL BE THE SEAWARD SIDE OF THE VEGETATION LINE OR HARD FEATURES SUCH AS WALLS, CONCRETE SLABS, PALMUS, ETC.

6. THE SEAWARD CONSTRUCTION EASEMENT BOUNDARY BETWEEN SB 0+00 AND SB 21+80 SHALL BE 20 FEET SEAWARD OF THE FILL FOOTPRINT.
SAND PLACEMENT TEMPLATE SUBJECT TO CHANGE PER MOST RECENT TOPOGRAPHIC SURVEY
SAND PLACEMENT TEMPLATE SUBJECT TO CHANGE PER MOST RECENT TOPOGRAPHIC SURVEY
SAND PLACEMENT TEMPLATE SUBJECT TO CHANGE PER MOST RECENT TOPOGRAPHIC SURVEY

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

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FINAL GRADE

STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION
KAANAPALI BEACH RESTORATION AND BEACH ENHANCEMENT
SAND PLACEMENT CROSS SECTIONS
(SB 8+00 TO SB 15+00)

NOTE: MLLW = Mean Lower Low Water

EXISTING GROUND
1/6/2020

PROJECT PROFILE

SAND PLACEMENT TEMPLATE SUBJECT TO CHANGE PER MOST RECENT TOPOGRAPHIC SURVEY

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)

ELEVATION (FEET MLLW)
OFFSET (FEET)
NOTES:
1. TURBIDITY CONTAINMENT DEVICES AND ON-LAND SILT FENCES AS SHOWN ON SHEET C-22 SHALL BE OF SUITABLE DESIGN, STRENGTH, AND SUITABILITY FOR THEIR INTENDED APPLICATION IN THE OCEAN ENVIRONMENT.

2. TURBIDITY CONTAINMENT DEVICES AND SILT FENCES SHALL BE REGIMENTED DAILY, AND IMMEDIATELY REPLACED OR REPLACED AS NEEDED TO ENSURE THEIR EFFECTIVENESS.

3. A TURBIDITY CONTAINMENT DEVICE SHALL BE DEPLOYED COMPLETELY AROUND THE DREDGE CLAMSHELL BUCKET AND AREA OF ACTIVE SAND RECOVERY. THE TURBIDITY CONTAINMENT DEVICE SHALL EXTEND A MINIMUM OF 6 FEET BELOW THE WATER SURFACE.

4. THE TURBIDITY CONTAINMENT DEVICE SHALL BE DEPLOYED COMPLETELY AROUND THE DREDGE CLAMSHELL BUCKET AND AREA OF ACTIVE SAND RECOVERY. THE TURBIDITY CONTAINMENT DEVICE MAY ATTACH TO THE DREDGE BARGE.

5. THE TURBIDITY CONTAINMENT DEVICE TEMPLATE MATERIAL SHALL BE MONOMER WOVEN POLYPROPYLENE WITH THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
<th>TEST METHOD</th>
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<tr>
<td>GRAB STRENGTH</td>
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<td>ASTM D 4333</td>
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<tr>
<td>PUNCTURE</td>
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<td>ASTM D 4333</td>
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<tr>
<td>TRAPPED TEAR</td>
<td>90 LBS</td>
<td>ASTM D 4333</td>
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</tbody>
</table>

6. A DESCRIPTION OF THE TURBIDITY CONTAINMENT DEVICE(S), THEIR MATERIALS AND DESIGN, AND THE PROPOSED DEPLOYMENT METHODOLOGY SHALL BE INCLUDED IN THE ENVIRONMENTAL PROTECTION PLAN AND APPROVED BY THE ENGINEER PRIOR TO THEIR USE.

7. SILT FENCE SHALL BE INSTALLED AND MAINTAINED AROUND THE WORKSITE AND EQUIPMENT/MATERIALS STAGING AREAS.

8. THE SILT FENCE SHALL BE LOCATED A MINIMUM OF 20 FEET LANDWARD OF THE MEAN HIGH WATER (MHW) LINE.

9. SILT FENCE FILTER FABRIC SHALL BE WOVEN SILT FENCE, ANCHOR SILT STOP, OR APPROVED EQUAL.