NOTES FOR TURF REINFORCEMENT MAT INSTALLATION:

Site Preparation:

1. Grade And Shape Area Of Installation.

- 2. Remove All Rocks, Clods, Vegatative Or Other Obstructions More Than 1 Inch In Diameter So That The Installed Mats Will Have Direct Contact With The Soil.
- 3. Prepare Seedbed By Loosening 2-3 Inches Of Topsoil Above the Finish Grade.
- 4. Incorporate Soil Amendments, Such As Lime And Fertilizer, Into Soil According To Soil Test And The Seeding

1. Seed Area Before Mat Installation.

Anchoring:

1. U-Shaped Wire Staples Shall Be Used To Anchor Mats To The Ground Surface. Wire Staples Should Be A Minimum Of 11 Gauge. Wire Staples Should Be Driven Flush To The Soil Surface. All Anchors Should Be 6-8 Inches Long And Have Sufficient Ground Penetration To Resist Pullout. Longer Anchors May Be Required For Loose Soils.

Installation On Slopes:

- 1. Begin At The Top Of The Slope And Anchor Mat Edge In A 6 Inch Deep x 6 Inch Wide Trench. Backfill Trench And Tamp Earth Firmly.
- 2. Unroll Mat Downslope In The Direction Of Water Flow.
- 3. The Edges Of Adjacent Parallel Rolls Must Be Overlapped 2-3 Inches And Be Stapled Every 3 Feet.
- 4. When Mats Must Be Spliced, Placed Mats End Over End (Shingle Style) With 6 Inch Overlap. Staple Through Overlapped Area, Approximately 12 Inches Apart.
- 5. Lay Mats Loosely And Maintain Direct Contact With The Soil: Do Not Stretch.
- 6. Mats Shall Be Stapled Sufficiently To Anchor Blanket And Maintain Contact With The Soil. Staples Shall Be Placed Down The Center And Staggered With The Staples Placed Along The Edges. Steep Slopes, 1:1 To 2:1, Require 2 Staples Per Square Yard.

Inspection And Maintenance:

- 1. All Mats Shall Be Inspected Periodically Following Installation by the State Department of Transportation.
- 2. Inspect Installation After Significant Rainstorms To Check For Erosion And Undermining. Contractor Shall Repair Any Failure Immediately.
- 3. If Washout Or Breakage Occurs, Contractor Shall Re-install The Material After Repairing The Damage To The

HAW. | CM-STP-063-1(21) | 2002 | 70 85+00 To Kaneohe -LIKELIKE 205°10′41″ -- 357.48 <u>PLAN</u> Scale: 1"=20 Exist. Signal Corp. Cable, Contractor Provide Temp. Shoring System Paid Under Section 206 (15'± Pile). to Verify the Location in the Field. The Contractor Shall Be Responsible For the Design, Installation The Contractor Shall Exercise Caution

and Maintenance of Sheet Piles. *₿ e.p.* While Driving Pile and Guardrail. e.p. MG - TC Mirafi Miragrid, The Damages Shall be Repaired or Outbound New Guardrail Tensar Geogrid or Replaced by the Contractor at no Lanes TRM Anchor Approved Equal. Cost to the State. -Trench (6"X6") TRM - Permanent Turf Structure Backfill 388 Reconstruct Exist. Reinforcement Mat Pavement & Replace (North American Green 3'+10" @ 2:1 Slope Face C350 or Approved Equal) Exist. Granular Fill To A Depth Of 3 FT. on Face of MSE Slope. (Sta. 82+00 to 84+50) MG 3xTx14' (3@2' O.C.) For Detail, See Sht. 12 Varies, 13'± MAX. @ 1.5:1 Slope Face Permeable Separator/-Reinforcement

MG 3xTx16' (4@2' O.C.) Exist. Backfill to Remain - Exist. Ground Exist. Granular Backfill 372 Existing Clay 6" Dia. PVC Perforated Pipe, SCH. 40 @ 10' O.C. Slope To Drain, Paid under 605.0060 TRM Anchor 1.5'±
Trench (6"X6") Incidental to TRM 100

<u>SECTION "A-A"</u> Scales: Horiz. 1"=20' Vert. 1"=4'

MECHANICALLY STABILIZED EARTH (MSE) SLOPE RECONSTRUCTION (# STA. 82+00 TO # STA. 84+50)

1. The Engineer will Pay Exist. Pavement Reconstruction Under Pavement Sections (203, 312 and 401).

PROJ. NO.

2. The Engineer Will Pay the Soil Reinforcement Under Section 647-Matting.

LICENSED PROFESSIONAL  $^{\prime}$  NO. 4129-C

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Colon y Gonte

HIGHWAYS DIVISION SLOPE STABILIZATION AT EMMELINE PL STA. 82+00 TO STA. 84+50

LIKELIKE HIGHWAY RESURFACING Emmeline Place to the Wilson Tunnel F. A. Project No. CM-STP-063-1(21)

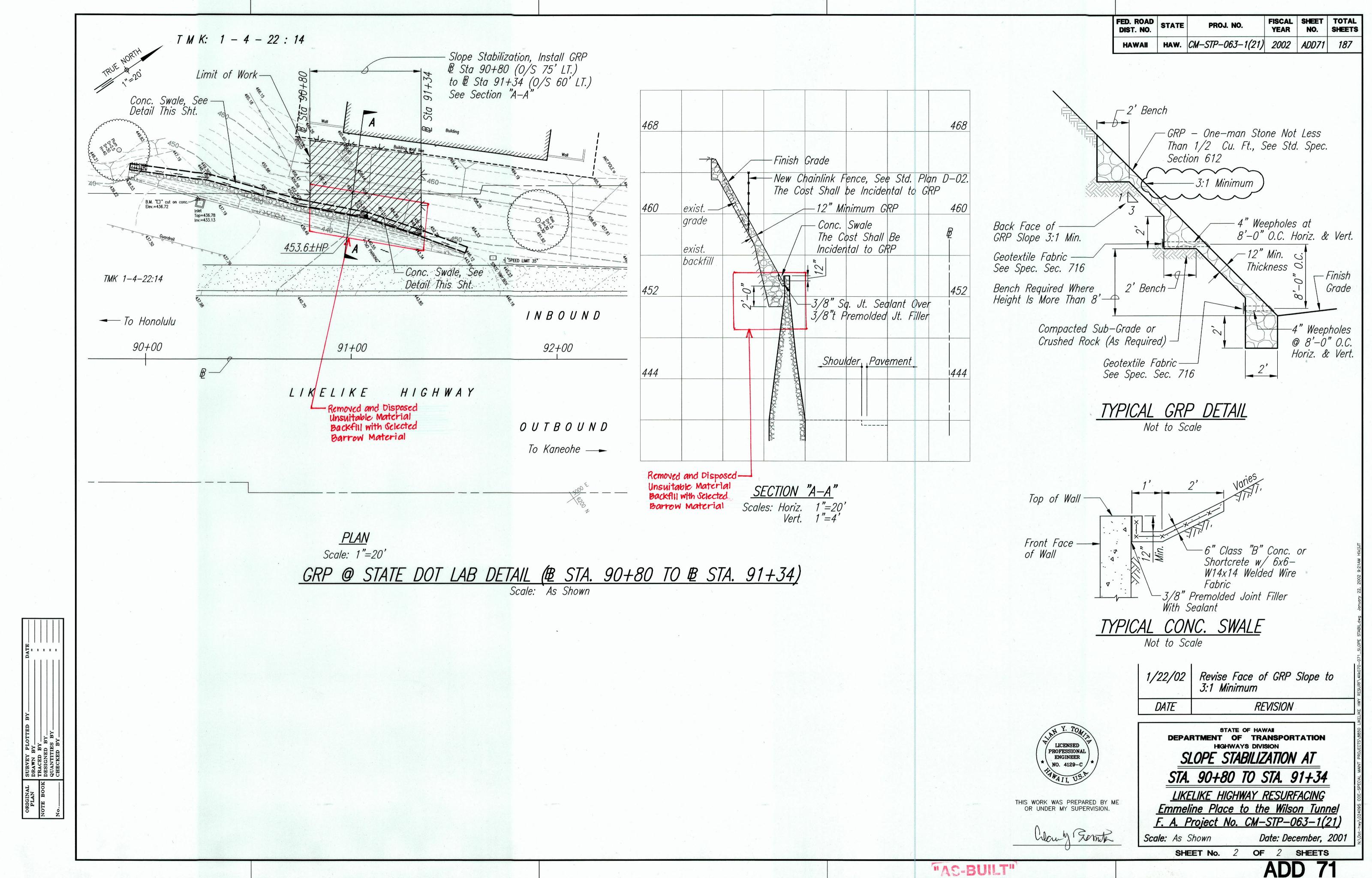
STATE OF HAWAII

Scale: As Shown

OF 2 SHEETS SHEET No.

70

Date: December, 2001



**ADD** 71