

GENERAL NOTES

1. THE SCOPE OF WORK FOR THIS PROJECT CONSISTS OF REMOVING EXISTING UAOA BRIDGE, CONSTRUCTING NEW UAOA BRIDGE, STREAM CHANNELIZATION, CONSTRUCTING DETOUR ROADS, ROADWAY PAVEMENT, INSTALLING NEW GUARDRAILS, AND SIGNS AND PAVEMENT MARKERS.
2. THE CONTRACTOR IS REMINDED OF THE REQUIREMENTS OF SUBSECTION 108.01—SUBLETTING OF CONTRACT, WHICH REQUIRES HIM TO PERFORM WORK AMOUNTING TO NOT LESS THAN 50 PERCENT OF THE TOTAL CONTRACT COST LESS DEDUCTIBLE ITEMS. NON-COMPLIANCE WITH THIS SUBSECTION MAY BE GROUNDS FOR REJECTION OF BID.
3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FOLLOWING SECTIONS OF THE SPECIAL PROVISIONS: SUBSECTION 107.13—PUBLIC CONVENIENCE AND SAFETY; SUBSECTION 107.21—CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES; AND SECTION 645—TRAFFIC CONTROL.
4. AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTIONS TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC.
5. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, MANHOLES, MONUMENTS AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT THE ACCURACY IS NOT GUARANTEED. THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF WORK IS POSSIBLE. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES INCURRED TO THE EXISTING FACILITIES AND/OR IMPROVEMENTS AS A RESULT OF HIS OPERATIONS.
6. THE EXACT LOCATIONS AND LIMITS OR AREAS TO BE FILLED WITH LEVELING COURSE, RECONSTRUCTED AND COLD PLANED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
7. THE CONTRACTOR SHALL NOTIFY IN WRITING, THE DEPARTMENT OF PUBLIC WORKS, DIVISION OF ENGINEERING, CONSTRUCTION BRANCH SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING, TWO (2) WEEKS PRIOR TO STARTING PAVING OPERATIONS.
9. SMOOTH RIDING CONNECTIONS SHALL BE CONSTRUCTED AT ALL LIMITS OF RESURFACING, INCLUDING THE BEGINNING AND END OF PROJECT, CONNECTING APPROACHES, SIDE STREETS AND DRIVEWAYS AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
10. DRESSING OF SHOULDERS, SHALL CONSIST OF CLEARING, GRUBBING, GRADING, RESHAPING AND COMPACTING THE UNPAVED SHOULDERS WITH SUITABLE MATERIAL AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
11. EXISTING DRAINAGE SYSTEM WILL BE FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS TO FURNISH MATERIALS, EQUIPMENT, LABOR, TOOLS AND INCIDENTALS NECESSARY TO MAINTAIN FLOW. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
12. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO AND FROM ALL EXISTING SIDE STREETS AND RESIDENTIAL PROPERTIES AT ALL TIMES.
13. ALL SAW CUTTING WORK SHALL BE CONSIDERED INCIDENTAL TO ROADWAY EXCAVATION.
14. ALL CONSTRUCTION SIGNS SHALL BE LEFT IN PLACE UNTIL ALL CONSTRUCTION ITEMS HAVE BEEN COMPLETED. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE ENGINEER TO REMOVE CONSTRUCTION SIGNS.
15. ALL WORK TO REMOVE TEMPORARY FACILITIES BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS IN THE PROPOSAL.
16. COMPLETE CONTROL OF ACCESS TO PROPERTIES ADJACENT TO THE HIGHWAY RIGHT-OF-WAY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL HAVE THE TEMPORARY WIRE FENCE INSTALLED AND APPROVED BY THE ENGINEER PRIOR TO REMOVAL OF EXISTING WIRE FENCE. FURTHERMORE, THE CONTRACTOR SHALL HAVE THE PERMANENT WIRE FENCE INSTALLED AND APPROVED BY THE ENGINEER PRIOR TO REMOVAL OF THE TEMPORARY WIRE FENCE.
17. FOLLOWING COMPLETION OF THE BRIDGE AND PRIOR TO REMOVING APPURTENANCES FOR THE DETOUR ROAD, ALL PAVEMENT MARKINGS SHALL BE INSTALLED AS SHOWN ON THE PAVEMENT MARKING PLANS OF DESIGN AS DIRECTED BY THE ENGINEER. THIS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
18. UPON COMPLETION OF THE BRIDGE AND TRAFFIC IS TRANSFERRED TO THE FINISHED PERMANENT ROADWAY, THE DETOUR ROADS INCLUDING ALL ITS APPURTENANCES SHALL BE REMOVED AND THE CONSTRUCTION PARCELS SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR AS APPROVED BY THE ENGINEER.
19. THE CONTRACTOR SHALL HAVE EXISTING UTILITY LINES TONED PRIOR TO INSTALLING GUARDRAILS IN THE VICINITY OF THE UTILITY LINES. IF THE PROPOSED GUARDRAIL POSTS ARE WITHIN 3 FEET OF THE UTILITY LINES, THE CONTRACTOR SHALL EXCAVATE AND EXPOSE THE UTILITY LINE TO DETERMINE ALIGNMENT AND DEPTH. THE CONTRACTOR SHALL INSTALL GUARDRAILS IN THESE AREAS BY ACCEPTABLE METHODS OTHER THAN DRIVING, SUCH AS HAND DIGGING TO PREVENT DAMAGES TO THE EXISTING LINES.

GENERAL NOTES (CONTINUED)

20. REVEGETATION FOR TEMPORARY MULCHING AND PERMANENT RESTORATION SHALL CONSIST OF PRIMROSE WILLOW, JOB'S TEARS AND CALIFORNIA GRASS. THE AREAS OR EXPOSED GROUND; AFTER MAJOR EXCAVATIONS; ABUTMENTS, CHANNEL AND EMBANKMENTS ARE INSTALLED; SHALL BE IMMEDIATELY HYDROMULCHED WITH THE REVEGETATION MATERIAL TO PREVENT EROSION.

GRADING NOTES

1. ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH CHAPTER 14, ARTICLES 13, 14, 15 AND 16, AS RELATED TO GRADING, SOIL EROSION AND SEDIMENT CONTROL, OF THE REVISED ORDINANCES OF HONOLULU, 1990, AS AMENDED, AND SOILS REPORT BY ERNEST K. HIRATA AND ASSOCIATES, INC., W.O. 98-3029, DATED DECEMBER 10, 1998.
2. NO CONTRACTOR SHALL PERFORM ANY GRADING 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.
3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN CHAPTER 11-60, "AIR POLLUTION CONTROL".
4. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
5. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE.
6. ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.
7. FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
8. THE ENGINEER SHALL BE INFORMED OF THE LOCATION OF THE BORROW/DISPOSAL SITE FOR THE PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW/DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
9. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE DISTRICT ENGINEER, PROVIDED SUCH GRADING WORK IS ALSO IN CONFORMANCE WITH HAWAII ADMINISTRATIVE RULES, CHAPTER 11-43, "COMMUNITY NOISE CONTROL FOR OAHU".
10. THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
11. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, CHAPTER 11-55, "WATER POLLUTION CONTROL" AND CHAPTER 11-54, "WATER QUALITY STANDARDS" AND IF APPLICABLE, THE NPDES PERMIT FOR THE PROJECT.
12. WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
13. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
14. TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO APPLICATION FOR GRADING PERMIT.
15. IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
16. NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHOULD COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE PERMITTEE. FURTHERMORE, VIOLATORS SHALL BE SUBJECTED TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
17. BUILDING PERMIT FOR RETAINING WALLS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF GRADING WORK ON SITE.
18. THE BENCH MARK FOR THIS PROJECT IS THE STREET MONUMENT AT STA. 5+38±, (O/S 43.5'± LT.) ELEVATION = (+)514.10 FT. M.S.L.

GRADING NOTES (CONTINUED)

19. PRIOR TO PLACEMENT OF ANY FILL, THE EXISTING GROUND SHALL BE SCARIFIED TO A DEPTH OF SIX INCHES AND COMPACTED TO A MINIMUM OF 90 PERCENT COMPACTION AS DETERMINED BY AASHTO T-180.
21. AFTER CLEARING AND GRUBBING, ADDITIONAL ROOTS AND OTHER VEGETATION FOUND IN THE UPPER 6 TO 8 INCHES SHALL BE REMOVED.
22. CONSTRUCTION OBSERVATION AND FIELD DENSITY TESTING SHALL BE PERFORMED BY THE STATE. WHERE TESTS AND/OR OBSERVATIONS INDICATE THAT THE DENSITY OF UNIFORMITY OF ANY PORTION OF THE FILL IS INADEQUATE, THAT PORTION SHALL BE REMOVED AND REWORKED UNTIL THE REQUIRED DENSITY OR UNIFORMITY HAS BEEN SATISFACTORILY OBTAINED.

WATER QUALITY CONTROL (BEST MANAGEMENT PRACTICES)

1. SEQUENCE OF ACTIVITIES:
 - A. PRIOR TO EXCAVATION/GRADING OPERATIONS, THE CONTRACTOR SHALL INSTALL ENCATCHMENT COFFERDAMS FOR THE BRIDGE ABUTMENTS, PIER FOUNDATIONS AND WALLS DOWNSTREAM/DOWNSLOPE OF THE AREAS OF DISTURBED EARTHWORK. THIS WILL PROVIDE FOR PROTECTIVE ENCATCHMENT TO PREVENT DISTURBED MATERIAL FROM INFILTRATING THE STREAM BELOW. SILT CURTAINS SHALL ALSO BE INSTALLED ALONG THE BOTTOM SLOPES OF THE STREAM BANKS AFFECTED DURING EXCAVATION/GRADING TO REDUCE SEDIMENT DISCHARGE DOWNSTREAM. ADDITIONAL SILT CURTAINS SHALL BE INSTALLED DOWNSTREAM AND ACROSS THE WETTED STREAM TO FILTER ANY SILT THAT BY-PASS THE FIRST TWO BARRIERS DESCRIBED ABOVE. THE SILT CURTAIN USED SHALL BE CONSTRUCTED OF INTERWOVEN POLYPROPYLENE FABRIC (AMOCO 1380 OR EQUAL). IF ANY PORTION OF THE SILT CURTAIN IS DAMAGED, WORK SHALL BE SUSPENDED UNTIL THE CURTAIN IS REPAIRED AND REINSTALLED.
 - B. ALL EXCAVATED MATERIAL SHALL BE STOCKPILED TOP SIDE OF THE STREAM BANKS AND PROTECTED BY ENCLOSED SILT CURTAINS TO PREVENT SILT RUNOFF.
 - C. ONCE EXCAVATION/GRADING OPERATIONS IS COMPLETE, THE CONTRACTOR SHALL REMOVE THE SILT AND RESTORE THE AREA TO ITS ORIGINAL STATE (INCLUDING GRASSING OF ALL EXPOSED AREAS).
2. WATER QUALITY MONITORING:
 - A. THE CONTRACTOR SHALL MONITOR WATER QUALITY OF THE STREAM BEFORE, DURING AND AFTER CONSTRUCTION OPERATIONS (UPSTREAM, MIDSTREAM AND DOWNSTREAM OF THE CONSTRUCTION AREA).
 - B. TURBIDITY UPSTREAM OF THE OPERATION AND DOWNSTREAM BELOW THE SILT CURTAINS SHALL BE VISUALLY MONITORED DAILY BY THE CONTRACTOR. TURBIDITY WILL BE MEASURED PERIODICALLY UNDER THE TERMS OF THE DEPARTMENT OF HEALTH'S WATER QUALITY CERTIFICATION. CONTRACTOR SHALL CEASE WORK IF A PROBLEM OF UNUSUAL TURBIDITY DEVELOPS.
3. WASTE DISPOSAL PRACTICES:
 - A. CONSTRUCTION OPERATIONS WILL BE CONDUCTED SO AS TO PREVENT DISCHARGE OR ACCIDENTAL SPILLAGE OF POLLUTANTS, SOLID WASTE, DEBRIS AND OTHER OBJECTIONABLE WASTES IN SURFACE AND SUBSURFACE WATERS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DISPOSED OF BY THE CONTRACTOR AT APPROVED DISPOSAL FACILITIES. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED OR BURNED ON OR OFFSITE. SANITARY WASTES WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND CITY & COUNTY REGULATIONS.
 - B. SHOULD ANY DEBRIS FALL INTO THE STREAM CHANNEL, THE CONTRACTOR SHALL REMOVE IT BY THE END OF EACH WORK DAY.
4. OFFSITE VEHICLE TRACKING:
 - A. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE CONSTRUCTION ENTRANCE SHALL BE SWEEPED PERIODICALLY TO REMOVE EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.
5. OTHER CONTROLS:
 - A. CONSTRUCTION MANAGEMENT TECHNIQUES:

THE FOLLOWING CONSTRUCTION MANAGEMENT TECHNIQUES SHALL BE EMPLOYED AS APPROPRIATE:

 1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK OPERATIONS BEGIN.
 2. SURFACE RUNOFF SHALL BE DIVERTED WITH BERMS, CHANNELS, SEDIMENT TRAPS, AND OTHER APPROPRIATE MEASURES, AS PRACTICAL.
 3. PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL.
 - B. MAINTENANCE AND INSPECTION PROCEDURES FOR EROSION AND SEDIMENT CONTROLS:
 1. ALL CONTROL MEASURES SHALL BE INSPECTED DAILY AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.
 2. ALL CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER, AND IF ANY REPAIRS ARE NECESSARY, THEY WILL BE INITIATED AS SOON AS POSSIBLE.
 3. DIVERSION DITCHES SHALL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

FED.ROAD DIST.NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-036-1(14)	2000	3	70

WATER QUALITY CONTROL (CONTINUED)

4. TEMPORARY AND PERMANENT SEEDING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
5. THE CONTRACTOR SHALL ASSIGN INDIVIDUALS RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIRS, AND MAINTENANCE INSPECTION REPORT PREPARATION.
6. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN ALL MAINTENANCE AND INSPECTION PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS IN GOOD WORKING ORDER.

TEMPORARY EROSION CONTROL

1. FOLLOW SEQUENCE OF OPERATION AS RECOMMENDED ON PAGES 26 AND 27 OF THE SOIL EROSION STANDARDS AND GUIDELINES, DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU, NOVEMBER 1975, AND SECTION 639 OF THE STANDARD SPECIFICATIONS.
2. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF LAND TO BE EXPOSED AT ANY ONE TIME.
3. GRADING OPERATIONS SHALL PROCEED FROM THE HIGHER GROUND AREA FIRST, WHERE EXCAVATION OPERATIONS ARE NECESSARY. THE EXISTING VEGETATION ON THE LOWER AREA SHALL BE LEFT IN PLACE AS LONG AS FEASIBLE TO SERVE AS A FILTERING MEDIUM.
4. IF THE EXCAVATED MATERIAL FROM THE HIGHER AREA IS NEEDED TO FILL THE LOWER AREAS DESCRIBED IN #3 ABOVE, FILLING OPERATIONS SHALL BE DONE IN PHASES IN ORDER THAT EROSION AND SEDIMENTATION PROBLEMS CAN BE HELD TO A MINIMUM.
5. GRASSING (COMMON BERMUDA GRASS OR STAR GRASS CUTTINGS AT THE RATE OF 50 BUSHELS PER ACRE OR AN AVERAGE OF 2 SPRIGS PER SQUARE FOOT OR HYDROMULCH WITH SEEDS) OF ALL AREAS GRADED SHALL BE DONE IMMEDIATELY AFTER FINAL GRADES ARE ESTABLISHED.
6. GRADED AREAS THAT ARE NOT AT FINAL GRADE AND IS EXPECTED TO BE EXPOSED FOR MORE THAN 30 DAYS, SHALL BE MULCHED (AT THE RATE OF 45 CUBIC FEET PER 1,000 SQUARE FEET) IN ORDER TO PREVENT EROSION AND SILT RUNOFF.
7. THE ABOVE PROCEDURE FOR EROSION AND SEDIMENT CONTROL MAY BE REVISED BY THE CONTRACTOR TO CONFORM TO HIS GRADING OPERATION PROCEDURE. THE CONTRACTOR SHALL PLAN, DESIGN AND SUBMIT TO THE ENGINEER, AN EROSION CONTROL PLAN AS SPECIFIED UNDER SECTION 639 OF THE STANDARD SPECIFICATIONS.

GENERAL DETOUR NOTES

1. DETOUR TRAFFIC LANES SHALL BE 10- FEET WIDE WITH 2- FEET WIDE SHOULDERS.
2. ANY REQUEST FOR CHANGES TO THE DETOUR PLANS SHALL BE MADE IN WRITING FOR THE ENGINEER'S APPROVAL.

DEWATERING EFFLUENT DISCHARGE

1. DEWATERING EFFLUENT FROM CONSTRUCTION ACTIVITY SHALL NOT BE DISCHARGED IN STATE WATERS. THE CONTRACTOR SHALL BE RESPONSIBLE AND MAKE PROVISIONS SUCH THAT ANY DEWATERING DISCHARGE DOES NOT RE-ENTER ANY STATE WATERS.
2. IF THE CONTRACTOR CHOOSES TO USE A DEWATERING METHOD THAT DISCHARGES DEWATERING EFFLUENT INTO STATE WATERS, THE CONTRACTOR SHALL OBTAIN AN NPDES PERMIT FROM THE STATE OF HAWAII, DEPT. OF HEALTH, CLEAN WATER BRANCH AT NO COST TO THE STATE. ANY ADDITIONAL COST DUE TO DELAYS CAUSED BY SECURING OF THE NPDES PERMIT SHALL BE BORNE BY THE CONTRACTOR.



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

ENGINEERS SURVEYORS HAWAII, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NOTES

HANA HIGHWAY
REPLACEMENT OF UAOA BRIDGE AND APPROACHES
DISTRICT OF MAKAWAO
Federal-Aid Project No. BR-036-1(14)

Scale: As Noted Date: May, 1999

SHEET No. **C-1** OF **42** SHEETS

3