1. INSTALL STAKED SILT FENCE AND TREE PROTECTION FENCE AS INDICATED ON THE CONSTRUCTION PLANS.

2. EXCAVATE PONDS FOR SEDIMENT TRAPS FOR SITE RUNOFFS.
3. CONSTRUCT DIVERSION SWALES AROUND PERIMETER OF SITE TO PONDS, AS NECESSARY. 5. INSTALL SILTATION PROTECTION, AND OUTFALL STRUCTURES.

CONSTRUCT ROAD AND SITE IMPROVEMENTS.

8. COMPLETE FINAL SITE GRADING.
9. INSTALL PERMANENT LANDSCAPING ON SITE. REPAIR ANY WASHED OUT AREAS.
10. WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION PROTECTION DEVICES.

NAME OF RECEIVING WATERS: THE PROJECT DRAINS INTO THE CARIBBEAN SEA.

POLLUTION REDUCTION CONTROLS

OTHER THAN THE PROPOSED SEDIMENT AND EROSION CONTROLS AS DEPICTED IN THE SWPPP, ALL OTHER POTENTIAL POLLUTANTS SUCH AS PETROLEUM BASED MATERIALS AND ALL CHEMICAL STORAGE WILL BE PROTECTED IN AREAS OF SECONDARY CONTAINMENT OR UNDER ROOF.

EROSION AND SEDIMENT CONTROLS SEDIMENT AND EROSION CONTROLS INCLUDE THE FOLLOWING: SEDIMENT TRAPS/BASINS, RE-ENFORCED SILT FENCE, SILT SOCKS OR EQUIVALENT. IN ADDITION, MULCH, EROSION CONTROL BLANKETS, STABILIZED CONSTRUCTION ENTRANCE, AND STABILIZED OUTLET STRUCTURE WILL BE UTILIZED.

WIND EROSION STABILIZATION - THE CONTRACTOR SHALL DENUDE ONLY AREAS WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITHIN A REASONABLE TIME FRAME. ALL PERVIOUS AREAS OF THE SITE INCLUDED IN GRADING THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE GRADED AND PREPARED WITH A COMBINATION OF SOD AND/OR SEEDING AND MULCHING. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS (OR AS NEEDED) TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL BE MONITORED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST.

TEMPORARY STABILIZATION - TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 214 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASS AND MULCH OR OTHER APPROVED MEANS, NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE A MIXTURE OF 20 PARTS OF BERMUDA AND 80 PARTS OF PENSACOLA BAHIA. THE SEPARATE TYPES OF SEED USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY CONSISTING OF OAT, RYE OR WHEA STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA OR BAHIA GRASS HAY. ONLY UNDETERIORATED MULCH WHICH CAN BE READILY CUT INTO

PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD NO LATER THAN 14 DAYS AFTER LAST CONSTRUCTION ACTIVITY.

IN ADDITION SEDIMENT AND EROSION CONTROLS STATED ABOVE, STABILIZATION WILL INCLUDE A NATIVE VEGETATIVE COVER ESTABLISHED SUFFICIENT TO CONTROL EROSION

STRUCTURAL PRACTICES

EROSION PROTECTION - DURING THE CONSTRUCTION PHASES, APPROPRIATE PRACTICES INCLUDING, BUT NOT LIMITED TO SILT FENCE BARRIERS, HAY BALES AND WATERING OR OTHER METHODS NECESSARY WILL BE IMPLEMENTED TO CONTROL FUGITIVE DUST. SEDIMENT BASINS - THE STORM WATER MANAGEMENT AREAS (RETENTION AREAS) WILL SERVE AS SEDIMENT BASINS DURING THE CONSTRUCTION PERIOD. AT THE CONTRACTOR' DISCRETION, THE SEDIMENT BASINS WILL BE CONSTRUCTED TO THE DESIGN CROSS-SECTION OR A MINIMUM OF 2-FEET BELOW EXISTING GROUND TO ALLOW THE SILT TO BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING.

STORMWATER DRAINAGE WILL BE PROVIDED BY A GRASSED SWALE AND BERM SYSTEM FOR THE DEVELOPED AREAS. WHEN CONSTRUCTION IS COMPLETE THE SITE WILL DRAIN TO STORMWATER PONDS THAT WERE UTILIZED AS THE TEMPORARY SEDIMENT BASINS DURING THE CONSTRUCTION PROCESS. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTRUCT ALL RETENTION/DETENTION AREAS IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.

SPECIFIED OTHER CONTROLS

WASTE MATERIALS - ALL WASTE MATERIAL SHALL BE COLLECTED AND CONTAINED IN A CONTROLLED AREA PURSUANT TO STATE AND LOCAL SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS GENERATED FROM CONSTRUCTION IS TO BE REMOVED FROM THE SITE AND DISPOSED OF APPROPRIATELY. NO CONSTRUCTION MATERIALS SHALL BE BURIED ON SITE. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED IN THE ON SITE OFFICE TRAILER AND THE CONSTRUCTION MANAGER RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE

HAZARDOUS WASTE - IF ENCOUNTERED, ALL WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY STATE AND/LOCAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. SANITARY WASTE - ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE AND LOCAL CODES AND REGULATIONS.

OFF SITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE OFF SITE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS SHALL BE CLEANED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE SITE SHALL BE COVERED WITH A TARPAULIN AT ALL TIMES.

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT FENCE, STABILIZED CONSTRUCTION ENTRANCES AND SEDIMENT BASINS SHALL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS SHALL BE STABILIZED WITH A TEMPORARY GRASS AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY THAT AREA SHALL BE STABILIZED WITH PERMANENT SOD. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE TRAPS AND THE STAKED SILT FENCES SHALL BE REMOVED.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

PROJECTS UNDER THE TERRITORIAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM (TPDES). A TPDES STORMWATER GENERAL PERMIT (PERMIT VIGSA0000) WAS ISSUED ON DECEMBER 01, 2007. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE GENERAL PERMIT, THE EPA SWPPP DEVELOPMENT GUIDANCE DOCUMENT, AND THE VI ENVIRONMENTAL PROTECTION HANDBOOK.

MAINTENANCE INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL: 1. ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.5-INCHES OR GREATER BY

2. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF 3. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE 4. SILT FENCE SHALL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT AND TEARS TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

5. THE SEDIMENT BASINS SHALL BE INSPECTED DEPTH OF SEDIMENT AND BUILD UP OF SEDIMENT SHALL BE REMOVED WHEN IT REACHES 10% OF THE DESIGN CAPACITY OR AT THE END OF THE JOB. 6. TEMPORARY AND PERMANENT GRASSING AND MULCHING AND SODDING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS AND HEALTHY 7. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN ACTIVE LOG 7. A MAINTENANCE INSPECTION REPORT SHALL BE IMADE AFTER LAGITING LOTTON.

READILY AVAILABLE AT THE JOB SITE.

8. EITHER THE SITE SUPERINTENDENT OR HIS DESIGNEES SHALL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIR ACTIVITIES AND COMPLETING THE INSPECTION AND MAINTENANCE REPORT.

9. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED

NON-STORM WATER DISCHARGE

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

2. PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
3. UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). ALL NON-STORM WATER DISCHARGES SHALL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

NON-STORM WATER DISCHARGE

SPILL PREVENTION

IT IS EXPECTED THAT NO NON-STORM WATER DISCHARGES SHALL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD.

EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO COMPLETE THE PROJECT. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINED ENCLOSURE. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURE'S LABELED CONTAINERS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF THE PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER. MANUFACTURE'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.

HAZARDOUS PRODUCTS
THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS SHALL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURE'S OR LOCAL AND TERRITORY RECOMMENDED METHODS OF

PETROLEUM PRODUCTS ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDINGLY TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS
FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNT RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED

PAINTS
ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURES! INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS: CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURES' RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN UP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN UP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC AND

ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT

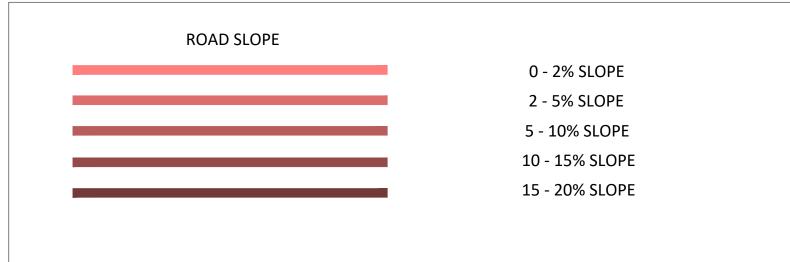
SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY. REGARDLESS OF THE

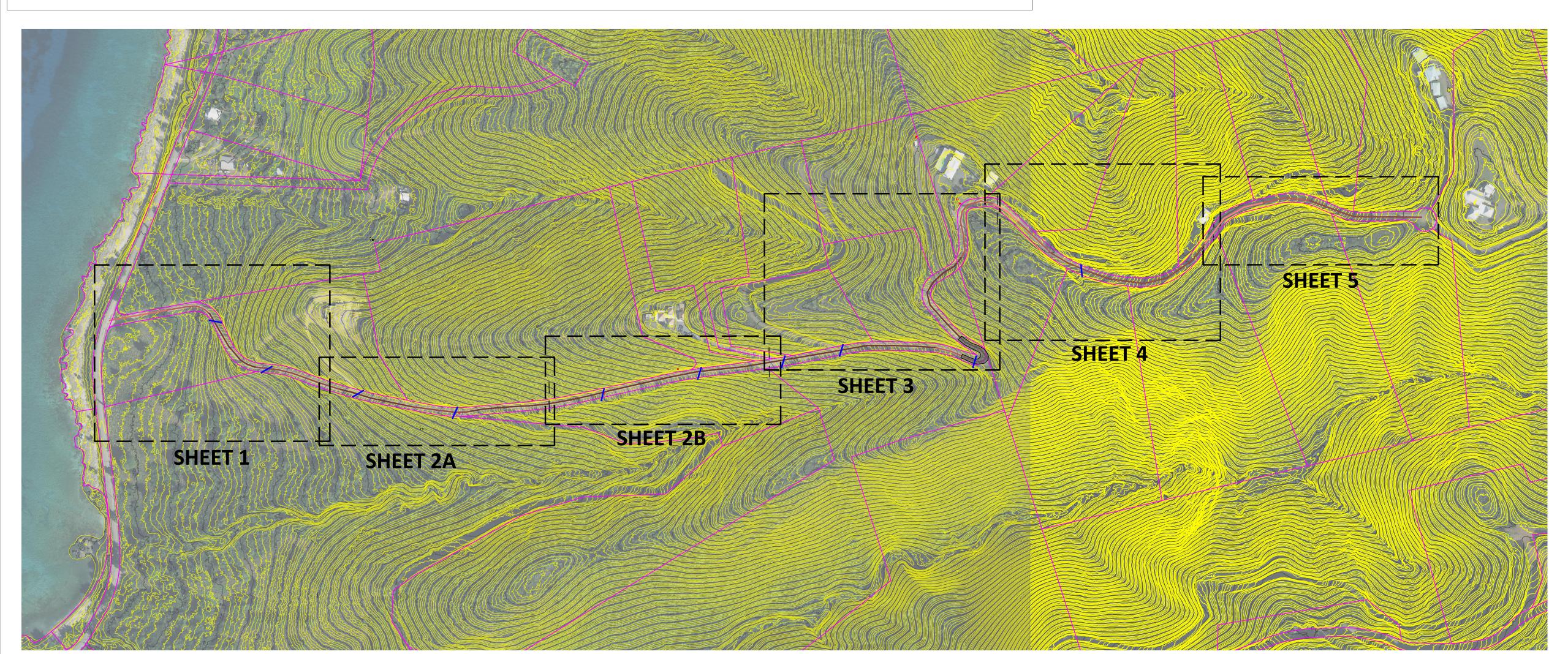
THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND THE CLEAN UP

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEAN UP COORDINATOR. HE OR SHE SHALL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEAN UP TRAINING. THESE INDIVIDUALS SHALL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEAN UP. THE NAMES OF THE RESPONSIBLE SPILL PERSONNEL SHALL BE POSTED IN THE MATERIAL STORAGE AREA OR IN THE OFFICE TRAILER ON SITE, IF APPLICABLE.

PROCEDURES FOR FUTURE USE. A DESCRIPTION OF THE SPILL, ITS CAUSE AND THE CLEAN UP MEASURES SHALL ALSO BE INCLUDED.

(1" = 2,000 ft)





J 100 200 SCALE: 1" = 200 ft.

REM PLOT 30

OLG DWG 4240

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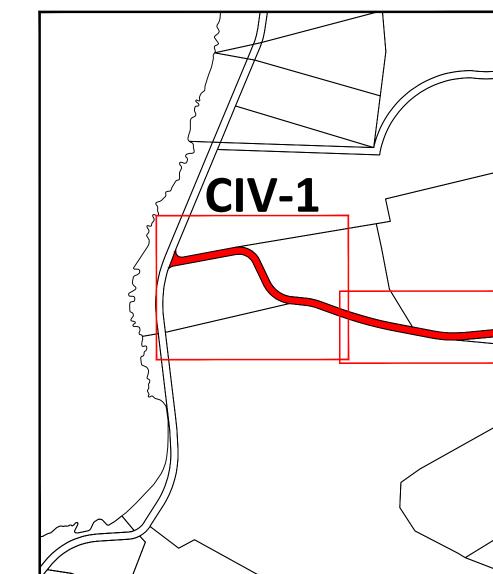
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Designed By: Drawn By: JB Checked By: JLB

Date: 2 AUG 2024

Project Number: 24X056

COV



ROAD SLOPE

0 - 2% SLOPE 2 - 5% SLOPE

5 - 10% SLOPE

10 - 15% SLOPE 15 - 20% SLOPE AG AGGREGATE ROAD **18' WIDE** 8" - 12" WELL GRADED SURFACE **RESHAPED 8"-12" COMPACTED BASE** CR CONCRETE RIBBON ROAD 3' WIDE 6' CENTER TO CENTER 8" THICK, 3000 PSI 12" CLEAN COMPACTED SUBGRADE **JOINTS EVERY 15'**

FC FULL CONCRETE ROAD 16' WIDE 8" THICK, REINFORCED, 3000 PSI 12" CLEAN COMPACTED SUBGRADE **JOINTS EVERY 15'**

0 15 30 SCALE:

1" = 30 ft.

STABILIZATION

RO

DOSPIVA

Checked By: JLB

Date: 2 AUG 2024

Project Number: 24X056

CIV-1

CIV-2B

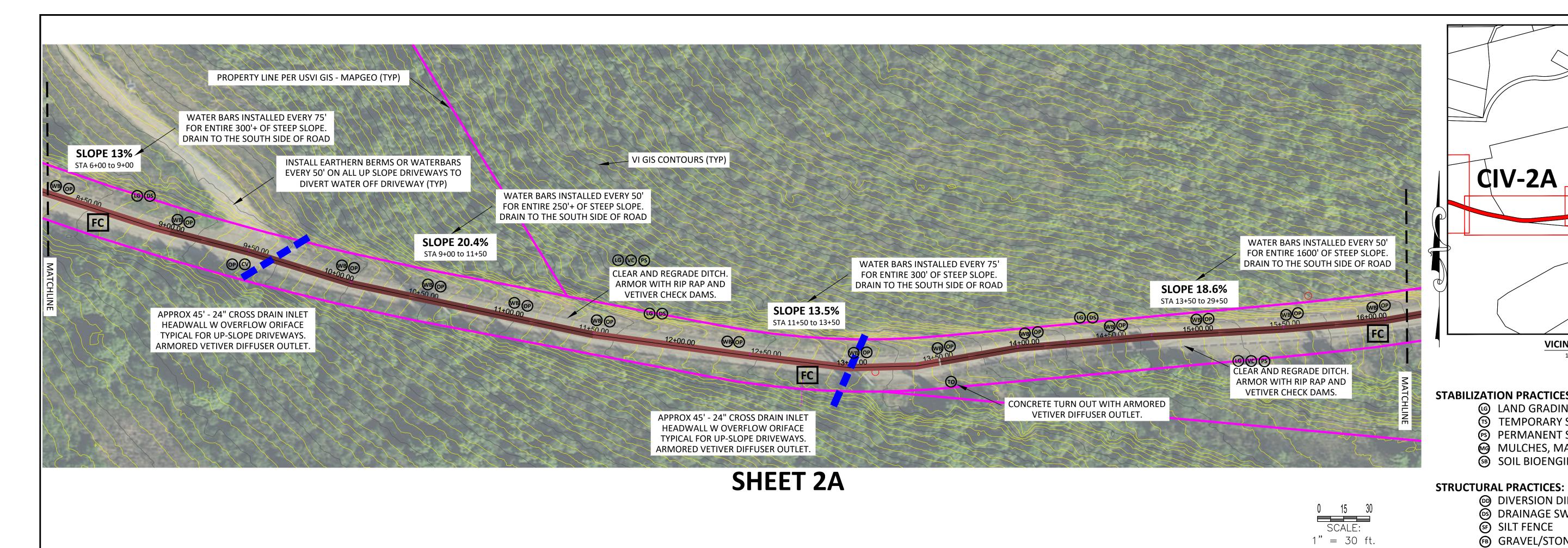
DOSPIVA

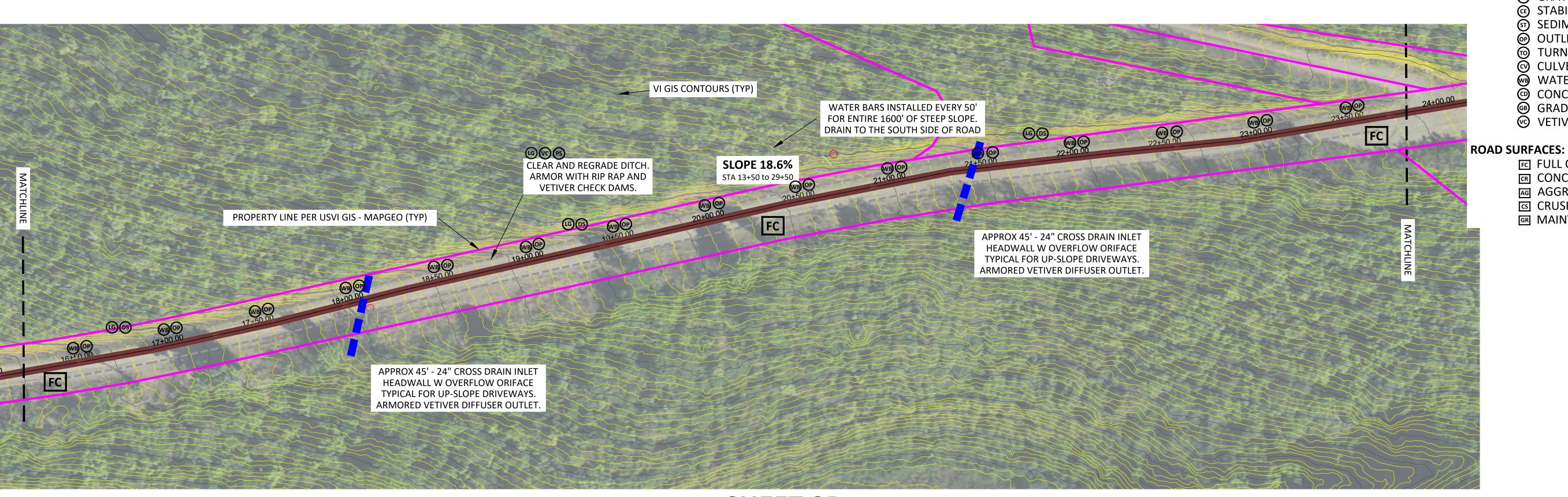
Designed By: Drawn By: JB Checked By: JLB

2 AUG 2024

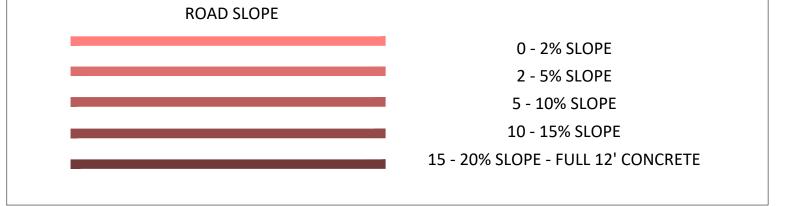
CIV-2

Project Number: 24X056





SHEET 2B



AG AGGREGATE ROAD **18' WIDE** 8" - 12" WELL GRADED SURFACE **RESHAPED 8"-12" COMPACTED BASE**

3' WIDE **6' CENTER TO CENTER** 8" THICK, 3000 PSI 12" CLEAN COMPACTED SUBGRADE **JOINTS EVERY 15'**

FC FULL CONCRETE ROAD **16' WIDE** 8" THICK, REINFORCED, 3000 PSI 12" CLEAN COMPACTED SUBGRADE **JOINTS EVERY 15'**

CR CONCRETE RIBBON ROAD

© OUTLET PROTECTION TURNOUTS

© CULVERT

WATERBARS

© CONCRETE DIP

GRADE BREAK

FI FULL CONCRETE

© CRUSHED SHELL

AGGREGATE

© CONCRETE RIBBON

GR MAINTAINED GRASS

© VETIVER CHECK DAM

RO NEPAIR
THILL & BUTLER E

ENT N

OVEMI

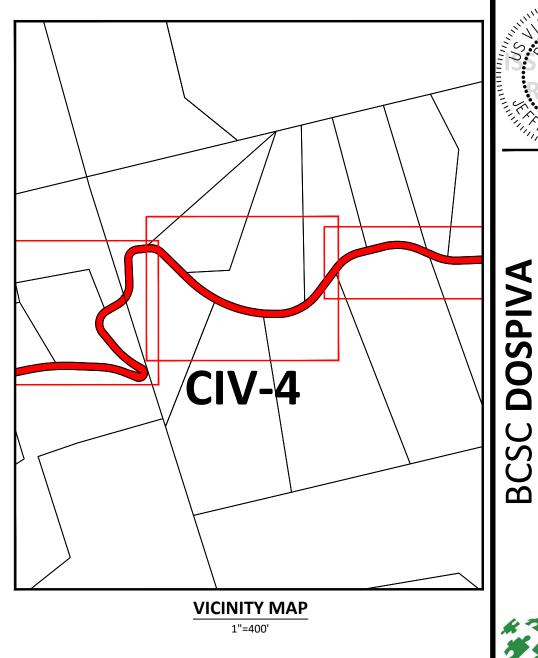
ROAD PROSPECT Saint Croix, U.S. Designed By:

Drawn By: JB Checked By: JLB

2 AUG 2024

Project Number: 24X056

CIV-3



STABILIZATION PRACTICES:

(G) LAND GRADING

TEMPORARY SEEDING

PERMANENT SEEDING AND PLANTING

MULCHES, MATS AND GEOTEXTILES

SOIL BIOENGINEERING

STRUCTURAL PRACTICES:

DIVERSION DIKES AND SWALES

® GRAVEL/STONE FILTER BERM

© STABILIZED CONSTRUCTION ENTRANCE

© CULVERT

© CONCRETE DIP

© VETIVER CHECK DAM

© CONCRETE RIBBON

GR MAINTAINED GRASS

FC FULL CONCRETE

AGGREGATE

© CRUSHED SHELL

CIV-4

Project Number: 24X056

Designed By:

Drawn By: JB

Checked By: JLB

2 AUG 2024

STABILIZATION

RO

ROAD REPAIR
S PROSPECT HILL & BUTLER B
Saint Croix, U.S. Virgin Islands

 DRAINAGE SWALES SF SILT FENCE (§T) SEDIMENT TRAP OUTLET PROTECTION TURNOUTS

15 - 20% SLOPE - FULL 12' CONCRETE

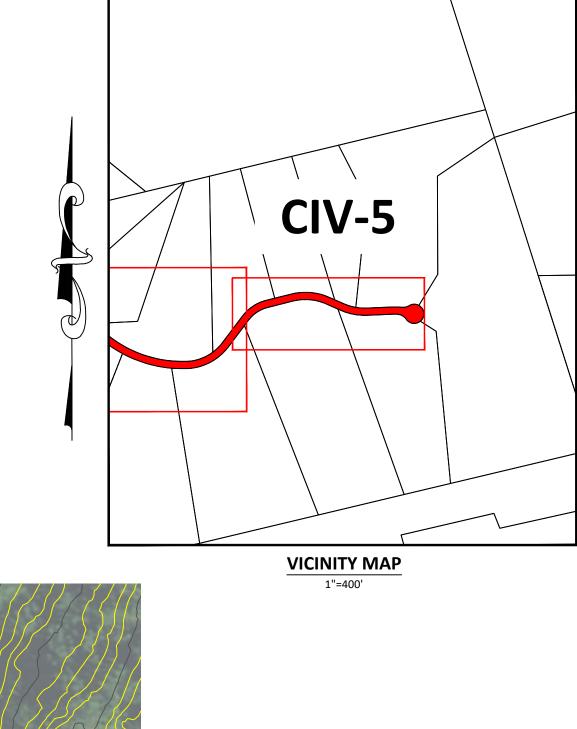
8" - 12" WELL GRADED SURFACE RESHAPED 8"-12" COMPACTED BASE

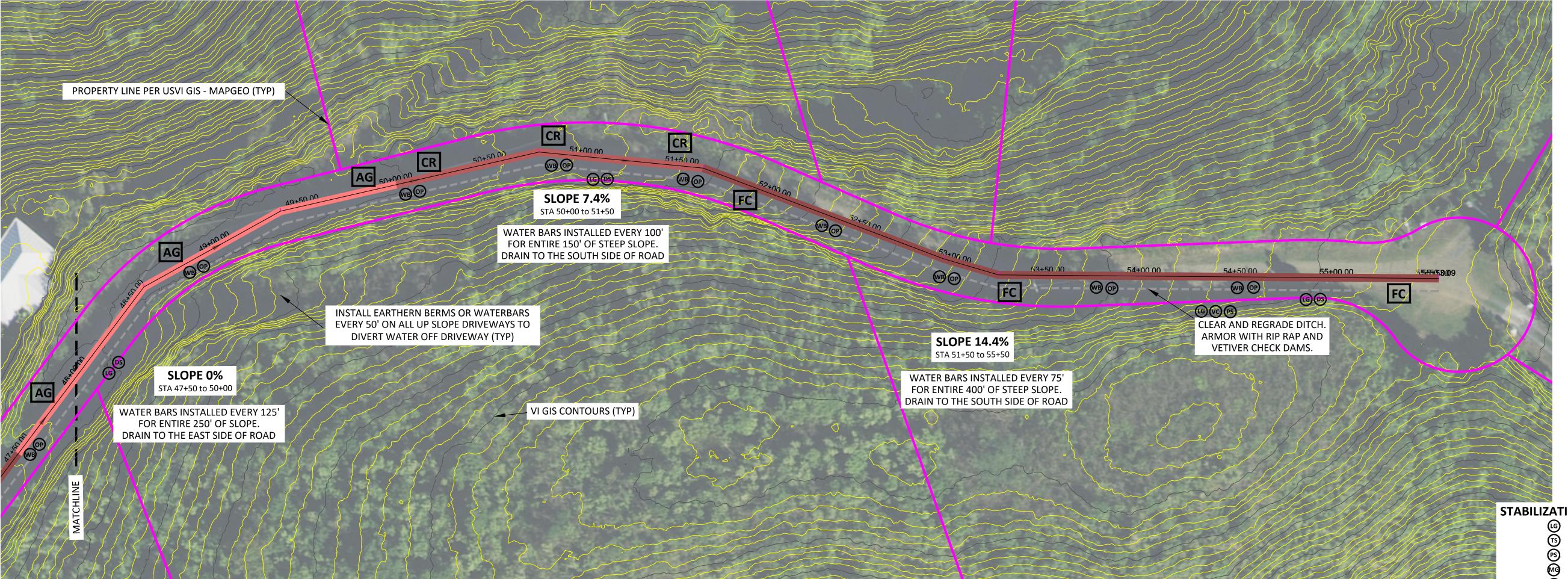
6' CENTER TO CENTER 8" THICK, 3000 PSI 12" CLEAN COMPACTED SUBGRADE

JOINTS EVERY 15'

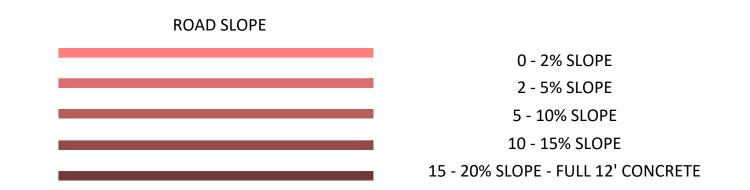
8" THICK, REINFORCED, 3000 PSI 12" CLEAN COMPACTED SUBGRADE

JOINTS EVERY 15'





0 15 30 SCALE: 1" = 30 ft.



AG AGGREGATE ROAD 18' WIDE 8" - 12" WELL GRADED SURFACE **RESHAPED 8"-12" COMPACTED BASE** CR CONCRETE RIBBON ROAD 3' WIDE 6' CENTER TO CENTER 8" THICK, 3000 PSI 12" CLEAN COMPACTED SUBGRADE **JOINTS EVERY 15'**

FC FULL CONCRETE ROAD 16' WIDE 8" THICK, REINFORCED, 3000 PSI 12" CLEAN COMPACTED SUBGRADE **JOINTS EVERY 15'**

STABILIZATION PRACTICES:

- LAND GRADING
- TEMPORARY SEEDING
- PERMANENT SEEDING AND PLANTING
- MULCHES, MATS AND GEOTEXTILES
- SOIL BIOENGINEERING

STRUCTURAL PRACTICES:

- DIVERSION DIKES AND SWALES
- DRAINAGE SWALES
- ® GRAVEL/STONE FILTER BERM
- © STABILIZED CONSTRUCTION ENTRANCE
- (57) SEDIMENT TRAP
- OUTLET PROTECTION
- TURNOUTS
- CULVERT
- WATERBARS
- © CONCRETE DIP
- GRADE BREAK

© VETIVER CHECK DAM

ROAD SURFACES:

- FI FULL CONCRETE
- □ CONCRETE RIBBON
- AG AGGREGATE
- © CRUSHED SHELL
- MAINTAINED GRASS

D IMPROVEMENT STABILIZATION

RO

REPAIR THILL & BUTI J.S. Virgin Islands

ROAD F. PROSPECT | Saint Croix, U.S.

Designed By:

Drawn By: JB

Checked By: JLB

2 AUG 2024

POLLUTION REDUCTION CONTROLS EROSION AND SEDIMENT CONTROLS

WIND EROSION STABILIZATION - THE CONTRACTOR ST REASONABLE TIME FRAME. ALL PERVIOUS AREAS OF T

STRUCTURAL PRACTICES BALES AND WATERING OR OTHER M

SPECIFIED OTHER CONTROLS

HAZARDOUS WASTE - IF ENCOUNTERED, ALL WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY STATE AND/LOCAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. SANITARY WASTE - ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE AND LOCAL CODES AND REGULATIONS.

SEEDING SPECIFICATIONS

ADDITIONAL SEEDLING SPECIFICATIONS:

A CONSIDERABLE AMOUNT OF TIME.

SOIL TEST RESULTS.

Carpetgrass

Guinea Grass

Pangolagrass

Angleton Grass

Beach Grass

(Sporobolus Virginicus)

mon Bermunda Grass

1. TEMPORARY SEEDING SHALL BE PERFORMED ONN ALL DISTURBED SOIL AREAS IN WHICH ACTIVITIES HAVE CEASED AND WHICH WILL REMAIN EXPOSED. MINIMUM SPECIFICATIONS ARE AS FOLLOWS, REFER TO THE LANDSCPAE PLAN AND CONSULT WITH A LOCAL LANDSCAPE PROFESSIONAL FOR APPROPRIATE SUBSTITUTIONS OR FOR

2. ON RELATIVELY LEVEL, UNGRADED AREAS WHERE THE SOIL IS UNSUITABLE FOR

3. USE ANNUAL GRASSES (SUCH AS RYE OR FESCUE) TO PROVIDE TEMPORARY COVER. COMMON BERMUDA OR BAHIA GRASS (OR OTHER PERENNIALS, SEE TABLE 4, IBID) CAN ALSO BE ADDED TO THE SEED MIX TO PROVIDE LONGER TERM STABILIZATION ON BAR SOILS THAT WILL BE REDISTURBED BEFORE CONSTRUCTION IS COMPLETE, BUT NOT FOR

4. PLANT GRASSES DURING THE RAINY SEASON, IF POSSIBLE, AND ACCORDING TO

5. REPAIR SMALL BARE SPOTS AS NEEDED BY RESEEDING AND/OR MULCHING.

GUIDE, BY DPNR & THE UNIVERSITY OF THE VIRGIN ISLANDS.

SEED RATE TO ACCOUNT FOR LOSS TO BIRDS AND PESTS.

GROWING VEGETATION, SPREAD A 2"-6" LAYER OF GOOD TOPSOIL BEFORE PLANTING. REFER TO TABLE 3, SEDIMENT & EROSION CONTROL ON CONSTRUCTION SITES FIELD

MANUFACTURER'S SPECIFICATIONS. SUPPLEMENTAL WATER WIL BE NEEDED IF GRASS IS

PLANTED DURING THE DRY SEASON. IT MAY ALSO BE NECESSARY TO INCREASE THE

6. MOW GRASSED SWALES AND EMBANKMENTS FREQUENTLY TO CONTROL WEEDS AND

UNWANTED WOODY VEGETATION. MOWING HEIGHT SHOUD BE AT LEAST 3" ABOVE

7. PERMANENT SEEDING SHALL BE PERFORMED ON ALL DISTURBED SOIL AREAS THAT ARE

WITHIN ONE YEAR. MINIMUM SPECIFICATIONS ARE AS FOLLOWS, REFER TO THE LANDSCAPE PLAN AND CONSULT WITH A LOCAL LANDSCPAE PROFESSIONAL FOR APPROPRIATE SUBSTITUTIONS OR FOR ADDITIONAL SEEDING SPECIFICATIONS: a. INSTALLATION SPECIFICATIONS FOR PERMANENT SEEDING AND PLANTING ARE SIMILAR TO THOSE FOR TEMPORARY SEEDING. ESTABLISH PERMANENT GRASS OR OTHER VEGETATION BY SEEDING, SODDING OR PLANTING IMEDIATELY AFTER SEEDBED PREPARATION IS COMPLETED. SEE TABLE 8 (SEDIMENT & EROSION

AT FINISHED GRADE, AND ALL DISTURBED SOIL AREAS THAT WIL NOT BE DISTURBED

CONTROL ON CONSTRUCTIN SITES FIELD GUIDE BY DPNR & THE UNIVERSITY OF THE

ON STEEP (>15%) SLOPES OR DURING THE RAINY SEASON, PROTECT THE GRASS SEED,

VIRGIN ISLANDS) FOR INFORMATION ON LAWN GRASSES APPRORIATE FOR USE IN THE VIRGIN ISLANDS, CONTACT THE UVI COOPERATIVE EXTENSION SERVICE FOR

b. APPLY GRASS SEED UNIFORMLY BY HAND, SEEDER, OR HYDROSEEDER. IF SEEDIING

d. MOW GRASS FREQUENTLY TO CONTROL WEEDS. MOWING HEIGHT SHOULD BE AT LEAST 2" ABOVE GROUND, (HEIGHT SHOULD BE HIGHER DURING THE DRY SEASON

e. NEW VEGETATION MAY NEED TO BE FERTILIZED FOR THE FIRST 2 OR 3 YEARS AFTER

PLANTING TO MAINTAIN DENSITY AND IMPROVE VIGOR. FERTILIZE ACCORDING TO

TERRITORIAL AND FEDERAL RULES AND REGULATIONS (CONTACT DPNR-DEPOR UVI

DETERMINE THE APPROPRIATE FERTILIZER AND SOIL AMMENDMENT APPLICATIONS.

Throughout the island

Dry areas & alkaline soils;

shady areas; intolerant to

wet and acid soils Throughout the island,

especially wetlands and

other wet areas

except dry areas

Especially adapted to

granific soils

All dry sites

All dry sites

Throughout islands,

INFORMATION ON NATIVE PLANTS AND OTHER SUITABLE VEGETATION.

PLANTS AND SOIL WITH MULCH OR EROSION CONTROL BLANKET. c. REPAIR SMALL BARE SPOTS BY RE-SEEDING AND/OR MULCHING.

AD DROUGHT AND WIITHIN THE GHUT AND SWM BASIN AREAS).

COOPERATIVE EXTENSION SERVICE FOR DETAILS).

f. USE HERBICIDES AS DIRECTED BY MANUFACTURER AND ACCORDING TO

g. PRIOR TO PERMANENT SEEDING SOILD TESTING SHALL BE PERFORMED TO

80 lbs. per acre

80 lbs. per acre

30 lbs. per acre

or vegetative

Grasses Especially Adapted to Dry Sites*

4 lbs. per acre

Grasses Especially Adapted to Saline Sites

Vegetative

Natural Seeding

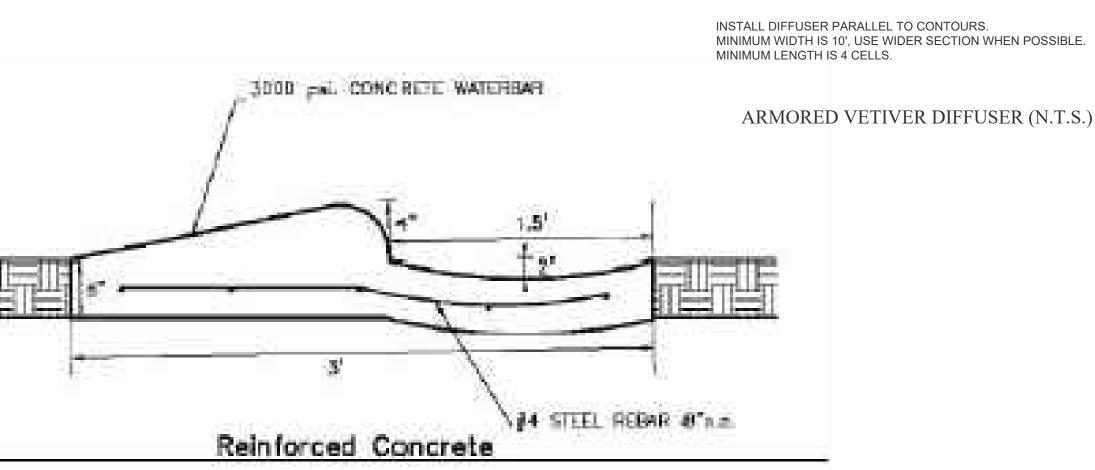
TEMPORARY SEEDING SCHEDULE

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

NON-STORM WATER DISCHARGE

MATERIAL MANAGEMENT PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, TH FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURES' RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF TH PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN UP SUPPLIES. CROSS SECTION



<u>PLAN VIEW</u>

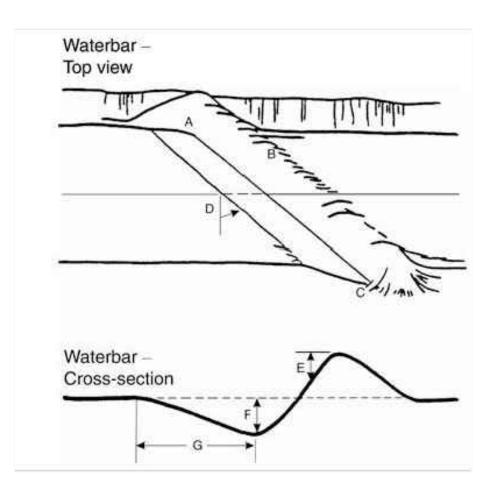
PERIMETER DIKE AND SWALE

CONCRETE WATERBAR (N.T.S.) TO BE USED ON ALL RIBBON AND FULL CONCRETE ROADS

STANDARD SYMBOL STABILIZED CONSTRUCTION **ENTRANCE** MOUNTABLE BERM (6 IN MIN. EXISTING PAVEMENT PIPE (SEE NOTE 6) **PROFILE** 50 FT MIN. LENGTH * XISTINGPAVEMENT PLAN VIEW

CONSTRUCTION SPECIFICATIONS

- 1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE, PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT
- 3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- 4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- 5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.



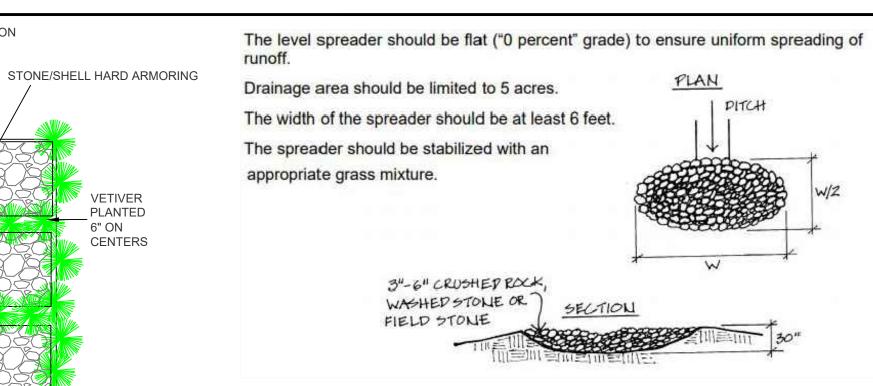
STABILIZE DIVERSION DITCH WITH TEMPORARY SEEDING AND EROSION CONTROL

POSITIVE GRADE 1.0% MAX.

- STEEP CUT OR FILL SLOPE

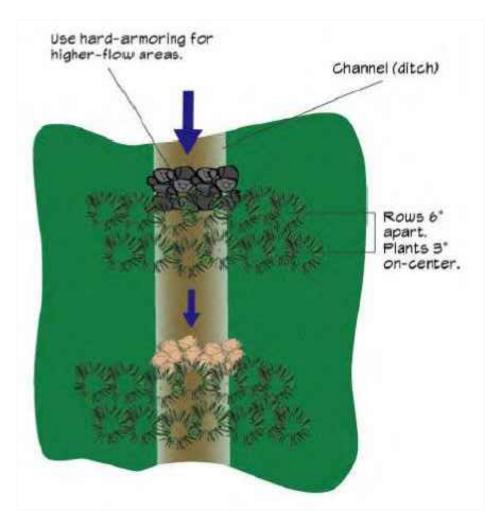
- Bank tie-in point; cut 6 inches to 1 foot into the roadbed.
- Cross drain berm height 1 to 2 feet above roadbed. Drain outlet cut 8 inches to 16 inches into the roadbed.
- Angle drain 30 to 45 degrees downgrade with road centerline.
- Up to 2 feet in height.
- Depth to 18 inches. 3 to 4 feet.

EARTHERN WATERBAR (N.T.S.) TO BE USED ON ALL UPSLOPE DRIVEWAYS



FLOW DIRECTION

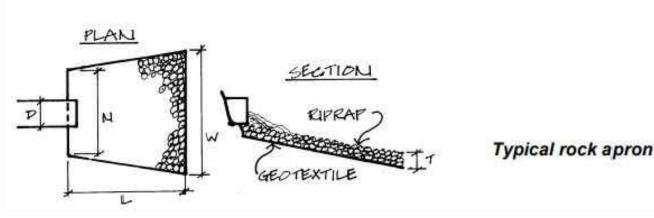
LEVEL SPREADER (N.T.S.)



VETIVER CHECK DAM (N.T.S.)

Rock Apron Design Specifications					
Culvert Diameter (in.)	Riprap Size – R#	T (in.)	N (ft.)	W (ft.)	L (ft.)
18	R#3 or R#4*	18	4.5	14.5	10.0
24	R#3 or R#4*	18	6.0	20.0	14.0

*Use R-3 sized riprap when slope of outfall is less than 10%, and use R-4 when slope outfall is greater than 10%. (R-# is a National Crushed Stone Association specification. For example, R-4 specifies that the riprap will be between 3 and 12 inches in size, with an average size of 6 inches, and that 50% of tonnage will be greater than 6 inches and 50% less than 6 inches.)



RIPRAP OUTLET PROTECTION (N.T.S.)



CROSS DRAIN INLET WITH OVERFLOW ORIFACE (N.T.S.)

SPIVA

DO S $\mathbf{\Omega}$

S

AIR & BU

Designed By: Drawn By: JB Checked By: JLB cale: as shown

2 AUG 2024

Project Number: 24X056