1.7.1 THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS. 1.4. LOAM, SEED, & MULCH: ALL DISTURBED AREAS, WHICH ARE NOT OTHERWISE TREATED, SHALL RECEIVE PERMANENT SEEDING AND MULCH TO STABILIZE THE DISTURBED AREAS WITHIN 5 DAYS OF FINAL GRADING. SEEDING REQUIREMENTS ARE PROVIDED AT THE END OF THIS SPECIFICATION. THE FOLLOWING PLAN FOR CONTROLLING SEDIMENTATION AND EROSION FROM THIS PROJECT IS BASED UPON SOUND CONSERVATION PRACTICES, AND ADHERES TO THE STANDARDS DETAILED IN THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED MARCH 2003. THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE AFOREMENTIONED PUBLICATION AND COMPLY WITH THE PRACTICES PRESENTED THEREIN. 1.6.4 EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. 1.6.3 THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET THE WIDTH OF A BALE TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. 1.3 RIPRAP: PROVIDE RIPRAP IN AREAS WHERE THAN 2:1 AND AS SHOWN ON THE PLANS. 1.6.5 LOOSE STRAW SHALL BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES. 1.6.1 BALES SHALL BE EITHER WIRE-BOUND OR STRING TIED WITH THE BINDINGS ORIENTATED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES. 1.5 JUTE MESH: STRAW AND HAY MULCH; USED TO COVER DENUDED AREAS UNTIL PERMANENT SEED OR EROSION CONTROL MEASURES ARE IN PLACE. MULCH CAN BE USED ON SLOPES LESS THAN 3:1. USE JUTE MESH ON SLOPES IN EXCESS OF 3:1. THE FOLLOWING EROSION SEDIMENTATION CONTROL DEVICES ARE PROPOSED FOR CONSTRUCTION ON THIS PROJECT. INSTALL THESE DEVICES AS INDICATED ON THE PLANS. GENERAL EROSION AND SEDIMENTATION CONTROL

1. EROSION/SEDIMENT CONTROL DEVICES THIS REPORT ADDRESSES THE EROSION CONTROL MEASURES TO BE APPLIED TO THE PROPOSED SITE WORK FOR THE PROJECT. REFERENCE IS MADE TO THE EROSION CONTROL EXHIBITS, SHOWING THE LOCATIONS OF PROPOSED MEASURES INCLUDED IN THIS REPORT. 1.6.2 BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER. HAY BALES: PLACE IN DRAINAGE SWALES AND PATHS TO TRAPMENTS AND REDUCE RUNOFF VELOCITIES. INLET PROTECTION: SILT FENCE: SILT FENCE WILL BE INSTALLED ALONG THE AGRADIENT EDGES OF DISTURBED AREAS TO TRAP RUNOFF BORNE AGRADIENT LATE SITE IS STABILIZED. IN AREAS WHERE STORMWATER LARGES THE SILT FENCE WILL BE REINFORCED WITH HAY BALES TO MAINTAIN THE INTEGRITY OF THE SILT FENCE AND TO PROVIDE MAINTAIN TREATMENT. STRAW BALE DROP INLET STRUCTURE SLOPES ARE STEEPER 4.6 CONSTRUCTION TRAFFIC WILL BE DIRECTED OVER THE PROPOSED ROADWAY SYSTEM. ANY AREAS SUBJECT TO RUTTING WILL BE STABILIZED IMMEDIATELY. THE ENTRANCE WILL BE SWEPT WEEKLY, SHOULD MUD BE TRACKED ONTO IT. THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION AS AN AREA IS READY TO UNDERGO FINAL GRADING. 5.1 A MINIMUM OF 4" OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH AND NATURAL APPEARANCE, OR STONE WILL BE PLACED ON SLOPES TO STABILIZE SURFACES. 4.5 ALL GRADING WILL BE HELD TO A MAXIMUM 2:1 SLOPE WHERE PRACTICAL. ALL SLOPES WILL BE STABILIZED WITH PERMANENT SEEDING, OR WITH STONE, WITHIN 5 DAYS AFTER FINAL GRADING IS COMPLETE. (SEE POST—CONSTRUCTION REVEGETATION FOR SEEDING SPECIFICATION.) 4.4 ALL DISTURBED AREAS EXPECTED TO REMAIN LONGER 7 DAYS SHALL BE EITHER: STOCKPILES EXPECTED TO REMAIN LONGER THAN 7 DAYS SHALL BE ENCIRCLED WITH HAY BALES OR SILT FENCE AT THE TOE OF THE PILE. POST-CONSTRUCTION REVEGETATION B. SEEDED WITH CONSERVATION MIX OF ANNUAL RYE GRASS (0.9 LBS/1000 SQ. FT) AND MULCHED IMMEDIATELY. TREATED WITH ANCHORED MULCH (WITHIN 5 DAYS OF THE LAST DEPOSIT OF STOCKPILED SOIL). SEEDED WITH CONSERVATION MIX AND MULCHED IMMEDIATELY. TREATED WITH ANCHORED MULCH IMMEDIATELY,

2.2 SILTATION FENCE ALONG THE DOWNGRADIENT SIDE OF THE PARKING AREAS AND OF ALL FILL SECTIONS. THE SILTATION FENCE WILL REMAIN IN PLACE UNTIL THE SITE IS REVEGETATED. PROVIDE THE FOLLOWING TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION OF THE DEVELOPMENT: HAY BALES AT KEY LOCATIONS TO SUPPLEMENT THE SILT FENCE. PROTECT TEMPORARY STOCKPILES OF STUMPS, GRUBBINGS, OR JON EXCAVATION AS FOLLOWS: TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES B. HYDRO-MULCH SHALL CONSIST OF A MIXTURE OF EITHER
WOOD FIBER OR PAPER FIBER AND WATER SPRAYED OVER A SEEDED AREA.
HYDRO-MULCH SHALL NOT BE USED BETWEEN 9/15 AND 4/15.

5.5 CONSTRUCTION SHALL BE PLANNED TO ELIMINATE THE NEED FOR
SEEDING BETWEEN SEPTEMBER 15 AND APRIL 15. SHOULD SEEDING BE
NECESSARY BETWEEN SEPTEMBER 15 AND APRIL 15, THE
FOLLOWING PROCEDURE SHALL BE FOLLOWED.

A. ONLY UNFROZEN LOAM SHALL BE USED.

B. LOAMING, SEEDING AND MULCHING WILL NOT BE DONE
OVER SNOW OR ICE COVER. IF SNOW EXISTS, IT MUST BE REMOVED
PRIOR TO PLACEMENT OF SEED. KENTUCKY BLUEGRASS 0.46 LBS/1000 SF. CREEPING RED FESCUE 0.46 LBS/1000 SF. PERENNIAL RYEGRASS 0.11 LB/1000 SF. 5.3 AN AREA SHALL BE MULCHED IMMEDIATELY AFTER IT HAS BEEN SEEDED. MULCHING SHALL CONSIST OF HAY MULCH, HYDRO- MULCH OR ANY SUITABLE SUBSTITUTE DEEMED ACCEPTABLE BY THE DESIGNER. 5.2 IF FINAL GRADING IS REACHED DURING THE NORMAL GROWING SEASON (4/15 TO 9/15), PERMANENT SEEDING WILL BE DONE AS SPECIFIED BELOW. PRIOR TO SEEDING, LIMESTONE SHALL BE APPLIED AT A RATE OF 138 LBS/1000 SQ. FT. AND 10:20:20 FERTILIZER AT A RATE OF 18.4 LBS/1000 SQ.FT WILL BE APPLIED. BROADCAST SEEDING AT THE FOLLOWING RATES: A. HAY MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE.

HAY MULCH SHALL BE SECURED BY EITHER:

I. BEING DRIVEN OVER BY TRACKED CONSTRUCTION EQUIPMENT ON GRADES OF 5% AND LESS. II. BLANKETED BY TACKED PHOTODEGRADABLE/BIODEGRADABLE NETTING, OR WITH SPRAY, ON GRADES GREATER THAN 5%. D. WHERE TEMPORARY SEEDING IS REQUIRED, ANNUAL WINTER RYE (2.6 LBS/1000 SQ. FT.) SHALL BE SOWN INSTEAD OF THE PREVIOUSLY NOTED SEEDING RATE. C. WHERE PERMANENT SEEDING IS NECESSARY, ANNUAL WINTER RYE (1.2 LBS/1000 SQ.FT) SHALL BE ADDED TO THE PREVIOUSLY NOTED AREAS. CREEPING RED FESCUE 0.46 LBS/1000 RED TOP 0.05 LBS/1000 SF. TALL FESCUE 0.46 LBS/1000 SF.

2.7 TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE HAS BEEN STABILIZED OR IN AREAS WHERE PERMANENT EROSION CONTROL MEASURES HAVE BEEN INSTALLED. 2.6 IF WORK IS CONDUCTED BETWEEN OCTOBER 15 AND APRIL 15, ALL DENUDED AREAS ARE TO BE COVERED WITH HAY MULCH, APPLIED AT TWICE THE NORMAL APPLICATION RATE, AND ANCHORED WITH FABRIC NETTING. THE PERIOD BETWEEN FINAL GRADING AND MULCHING SHALL BE REDUCED TO A 15 DAY MAXIMUM. 2.5 ALL DENUDED AREAS WHICH HAVE BEEN ROUGH GRADED AND ARE NOT LOCATED WITHIN THE BUILDING PAD, OR PARKING AND DRIVEWAY SUBBASE AREA SHALL RECEIVE MULCH WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL OR WITHIN 15 DAYS AFTER COMPLETING THE ROUGH GRADING OPERATIONS. IN THE EVENT THE CONTRACTOR COMPLETES FINAL GRADING AND INSTALLATION OF LOAM AND SOD WITHIN THE TIME PERIODS PRESENTED ABOVE, INSTALLATION OF MULCH AND NETTING, WHERE APPLICABLE IS NOT REQUIRED. STABILIZE STOCKPILES WITHIN 15 DAYS BY TEMPORARILY SEEDING WITH A HYDROSEED METHOD CONTAINING AN EMULSIFIED MULCH TACKIFIER OR BY COVERING THE STOCKPILE WITH MULCH. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, MAINTAINING, REPAIRING, REPLACING AND REMOVING ALL OF THE EROSION AND SEDIMENTATION CONTROLS OR APPOINTING A QUALIFIED SUBCONTRACTOR TO DO SO.

MAINTENANCE MEASURES WILL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, A VISUAL INSPECTION WILL BE MADE OF ALL EROSION AND SEDIMENTATION CONTROLS AS FOLLOWS:

6.1 HAY BALE BARRIERS AND SILT FENCE SHALL BE INSPECTED AND REPAIRED ONCE A WEEK OR IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL. SEDIMENT TRAPPED BEHIND THESE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6° AND REDISTRIBUTED TO AREAS UNDERGOING FINAL GRADING. SHOULD THE HAY BALE BARRIERS PROVE TO BE INEFFECTIVE, THE CONTRACTOR SHALL INSTALL SILT FENCE BEHIND THE HAY BALES.

6.2 VISUALLY INSPECT RIP RAP ONCE A WEEK OR AFTER EACH SIGNIFICANT RAINFALL AND REPAIR AS NEEDED. REMOVE SEDIMENT TRAPPED BEHIND THESE DEVICES ONCE IT ATTAINS A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE DAM OR RISER. DISTRIBUTE REMOVED SEDIMENT OFF—SITE OR TO AN AREA UNDERGOING FINAL GRADING. 5.6 FOLLOWING FINAL SEEDING, THE SITE WILL BE INSPECTED EVERY 30 DAYS UNTIL 80% COVER HAS BEEN ESTABLISHED. RESEEDING WILL BE CARRIED OUT BY THE CONTRACTOR WITHIN 10 DAYS OF NOTIFICATION BY THE ENGINEER THAT THE EXISTING CATCH IS INADEQUATE. 11.4 DEBRIS AND OTHER MATERIALS: LITTER, CONSTRUCTION DEBRIS, AND CHEMICALS EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE

7.1 HAY BALES AND SILT FENCE THE HAY BALES AND BE DISPOSED OF LEGALLY AND PROPERLY OFF—SITE. ALL TRAPPED BEHIND THESE CONTROLS SHALL BE: AN AREA IS CONSIDERED STABLE IF IT IS PAVED, GRAVEL, OR IF 80% GROWTH OF PLANTED SEEDS IS ESTABLISHED. ONCE AN AREA IS CONSIDERED STABLE, THE EROSION CONTROL MEASURES CAN BE REMOVED AS FOLLOWS: 6.3 REVEGETATION OF DISTURBED AREAS WITHIN 25' OF DRAINAGE—COURSE/STREAM WILL BE SEEDED WITH THE "MEADOW AREA MIX" AND INSPECTED ON A WEEKLY BASIS OR AFTER EACH SIGNIFICANT RAINFALL AND RESEEDED AS NEEDED. EXPOSED AREAS WILL BE RESEEDED AS NEEDED UNTIL THE AREA HAS OBTAINED 100% GROWTH RATE. PROVIDE PERMANENT RIPRAP FOR SLOPES IN EXCESS OF 3:1 AND WITHIN 25' OR DRAINAGE COARSE. A. DISTRIBUTED TO AN AREA UNDERGOING FINAL GRADING.

B. GRADED IN AN AESTHETIC MANNER TO CONFORM TO THE TOPOGRAPHY, FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE RATES PREVIOUSLY STATED.

MISCELLANEOUS: ONCE ALL THE TRAPPED SEDIMENTS HAVE BEEN MOVED FROM THE TEMPORARY SEDIMENTATION DEVICES, THE DISTURBED AS MUST BE REGRADED IN AN AESTHETIC MANNER TO CONFORM TO THE ROUNDING TOPOGRAPHY. ONCE GRADED, THESE DISTURBED AREAS MUST LOAMED (IF NECESSARY) FERTILIZED, SEEDED AND MULCHED IN CORDANCE WITH THE RATES PREVIOUSLY STATED. EROSION CONTROL SILT FENCE SHALL SEDIMENT

3.2 ALL AREAS DISTURBED DURING CONSTRUCTION, BUT NOT SUBJECT TO OTHER RESTORATION (PAVING, RIPRAP, ETC.), WILL BE LOAMED, LIMED, FERTILIZED AND SODDED. NATIVE TOPSOIL SHALL BE STOCKPILED AND REUSED FOR FINAL RESTORATION WHEN IT IS OF SUFFICIENT QUALITY.

STORMWATER RUNOFF GENERATED BY THE DEVELOPMENT OF THIS SITE BE COLLECTED IN A OPEN DRAINAGE SYSTEM.

FOLLOWING PERMANENT CONTROL MEASURES SION/SEDIMENTATION CONTROL PLAN:

ARE REQUIRED BY THIS

PERMANENT EROSION CONTROL MEASURES

3.3 SLOPES GREATER THAN 2:1 WILL BE TREATED WITH RIPRAP.
THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION

4.1 ONLY THOSE AREAS UNDER ACTIVE CONSTRUCTION WILL BE CLEARED AND LEFT IN AN UNTREATED OR UNVEGETATED CONDITION. IF FINAL GRADING, LOAMING AND SEEDING WILL NOT OCCUR WITHIN 15 DAYS. SEE ITEM NO. 4.4

NG CONSTRUCTION OF THIS PROJECT.

CONSTRUCTION PHASE

4.2 PRIOR TO THE START OF CONSTRUCTION IN A SPECIFIC AREA, SILT FENCING AND/OR HAY BALES WILL BE INSTALLED AT THE TOE OF SLOPE AND AREAS AS LOCATED ON THE PLANS TO PROTECT AGAINST ANY CONSTRUCTION RELATED EROSION. IMMEDIATELY FOLLOWING CONSTRUCTION OF CULVERTS AND SWALES, RIP RAP APRONS SHALL BE INSTALLED, AS SHOWN ON THE PLANS.

9.1 AN AREA SHALL BE EXPOSED SURFACES HAVE A RATE OF 100 LB PER SEEDED, MULCHED AND A TECHNIQUE. IN ALL CASESURFACE IS NOT VISIBLE 8.1 WINTER CONSTRUCTION: CONSTRUCTION PERF NOVEMBER 1 AND APRIL 15 OF ANY YEAR SHALL CONSTRUCTION," AND SHALL CONFORM TO THE FC STABILIZATION : MULCH ANCH ERIA: NOT BE REQUIRED BETWEEN THE DATES OF OCTOBER G PERIODS WHEN TEMPERATURES ARE ABOVE S SHALL BE FINE-GRADED AND PROTECTED WITH EEDED AND MULCHED UNTIL SUCH TIME AS THE APPLIED. AFTER NOVEMBER 1, ANY LOAMED, SMOOTH, BE DORMANT SEEDED AT A RATE OF 200% TO 300% BE PERMANENT SEED, AND THEN MULCHED. IF DURING FREEZING, TO THE MULCHED. IF DURING FREEZING, AND THE SURFACE SHALL Y FROM EROSION BY THE APPLICATION OF MULCH. TEXPOSED DURING THE WINTER OR ANY OTHER SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. HER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH LER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE MENT, EROSION SHALL BE CONTROLLED BY THE MENT, EROSION SHALL BE CONTROLLED BY THE ORING SHALL BE INSTALLED ACCORDING

EROSION

AND

SEDIMENTATION

CONTROL

PLAN

DEP

NOTES

4.3 TOPSOIL WILL BE STOCKPILED WHEN NECESSARY IN AREAS WHICH HAVE MINIMUM POTENTIAL FOR EROSION AND WILL BE KEPT AS FAR AS POSSIBLE FROM THE EXISTING DRAINAGE COURSE. ALL STOCKPILES EXPECTED TO REMAIN LONGER THAN 15 DAYS SHALL

3.2 LOAM OR SEED WILL 15, AND APRIL 15. DURI REEZING, EXPOSED SLOP WILLCH, OR TEMPORARILY FINAL GRADED AREAS MAY HIGHER THAN SPECIFIED F CONSTRUCTION CONTINUES SHALL BE CONTINUOUSLY BE PROTECTED TEMPORAR SLOPES SHALL NOT BE LIEXTENDED TIME OF WORK UNTIL SUCH TIME AS WEAD PERMANENT SURFACE TREPORTION OF HAY BALINSTALLATION OF HAY BALINSTALLATION OF HAY BALINSTALLATION DETAILS. 9.3 MULCH ANCHORING THE FOLLOWING CRIT A. BETWEEN NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, OR TRACK OR WOOD CELLULOSE FIBER.

9.5 SNOW REMOVAL: SEED AND MULCH. 9.4 DAILY PROTECTION: DURING THE PERIOD OF OCTOBER 1 TO APRIL 15, ALL BARE AND EXPOSED EARTH SHALL BE TREATED WITH A DORMANT SEEDING, MULCHED AND ANCHORED AT THE END OF EACH WORKING DAY. B. MULCH NETTING S WAYS WITH SLOPES DIRECT WINDS, AND C. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 5%. SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE GREATER THAN 3% FOR SLOPES EXPOSED TO FOR ALL OTHER SLOPES GREATER THAN 5%. TO THE APPLICATION

10.2 CONSTRUCTION STATHE SITE SHALL BE LOCAFENCING SHALL BE PLACE STAGING/STORAGE AREAS. 10.1 LIMIT OF CONSTRUING BE AS INDICATED ON THE OR WETLANDS WILL BE PEXCEPT IN THE AREAS OF APRONS. LIMITS OF CONSTRI AGING AREAS: THE CONSTRUCTION AND STAGING AREAS ATED IN WITHIN THE LIMIT OF DUSTURBANCE. SILT ED ALL AROUND THE PERIMETER OF THE ICTION: THE LIMIT OF CONSTRUCTION FOR THE SITE SHALLE PLANS. NO DISTURBANCE OF SOILS, VEGETATION, PERMITTED BEYOND THE LIMIT OF DISTURBANCE, STORMWATER DITCHES, CULVERTS, AND DISCHARGE

10.3 SCHEDULE: THE AN OF 2014, AND WILL BEGING TO PROTECT DRICK SYSTEMS TO PROTECT DRICK TO ANY SOIL DISTURBANCE ACTIVITIES, IMPERATIVE THAT DISTURBANCH ARE NECES 10.4 THE FINE AND VER PREPARATION MAY BE SULOSS WHEN SUBJECTED THE PARTICULARLY DURING PERFORE, CARRINIMIZE DISTURBANCE OF LOOSE SURFACE SOIL WILLIAM SUBGRADE BECOME TO DRAINAGE CAVITIES ARE EREQUIRED, AND BACKFILLE HOUSEKEEPING SUSCEPTIBLE TO EROSION, AND CAN UNDERGO STRENGTH SUSCEPTIBLE TO EROSION, AND CAN UNDERGO STRENGTH OF CONSTRUCTION TRAFFIC AND EXCAVATION ACTIVITIES, PERIODS OF PRECIPITATION AND HIGH GROUND WATER WILL BE EXERCISED DURING CONSTRUCTION TO OF THE BEARING SOILS. ALL TOPSOIL, ORGANIC AND WILL BE STRIPPED AND STORED FOR REUSE LATER. SHOULD SOFT OR DIFFICULT TO WORK AND/OR WHEREVER SUBSURFACE ENCOUNTERED, THE SUBGRADE WILL BE OVER EXCAVATED AS LED WITH GRANULAR FILL OR CRUSHED STONE.

2.1 STABILIZED CONSTRUCTION ENTRANCE SHALL TO ANY HAUL TO OR FROM THE SITE.

AVOID PLACING TEMPORARY STOCKPILES IN AREAS WITH SLOPES OVER 10 PERCENT, OR NEAR DRAINAGE SWALES.

SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED 2:1.

F. HAY MULCH SHALL BE SECURED WITH PHOTODEGRADABLE/BIODEGRADABLE NETTING. TRACKING BY MACHINERY ALONE WILL NOT SUFFICE.

E. FERTILIZING, SEEDING AND MULCHING SHALL BE DONE ON LOAM THE DAY THE LOAM IS TRACKING BY MACHINERY ALONE WILL NOT SUFFICE.

SURROUND STOCKPILE SOIL

WITH SILTATION FENCE.

11.2 GROUNDWATER PROT AND OTHER HAZARDOUS I MAY NOT BE STORED OR AREA. AN "INFILTRATION A RESULT OF SOILS, TOPOG THAT INFILTRATES INTO TH SECONDARY CONTAINMENT ISOLATE PORTIONS OF THI ISOLATE PORTIONS OF THI THESE MATERIALS. 11.3 FUGITIVE SEDIMENT AN ACTIVITIES DO NOT RESULT EMISSIONS DURING OR AFT CONTROL. AND DUST: ACTIONS MUST BE TAKEN TO ENSURE THAT I IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST TER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS ATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER ANDLED IN AREAS OF THE SITE DRAINING TO AN INFILITRATION EA" IS ANY AREA OF THE SITE THAT BY DESIGN, OR AS A APHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF

DRAINAGE AGGREGATE -12" THICK MIN. OR APPROVED EQUAL

PERCENT PASSING 100 75-100 0-60 0-50 0-5

MODU

OT

DRAINAGE AGGREGATE GRADATION

SIEVE SIZE

1 INCH
3/4 INCH
NO. 4
NO. 40
NO. 200

4" DIA. DRAIN PIPE -ET @ END OF WALL 40' CENTERS MAX.

GRANULAR

MIN. 6" THICK

IMPERVIOUS FILL

LOAM

 \leq

SEED

11.5 TRENCH OR FOUNDA WATER FROM TRENCHES, THE CONSTRUCTION AREA COLLECTED WATER IS HEAD PRACTICES. THE COLLECTION OR REMOVED TO AREAS I AMOUNT OF SEDIMENT POTAKEN IF APPROVED BY 11.6 NON-STORMWATER NON-STORMWATER DISC TOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE VILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION D WATER MUST BE REMOVED FROM THE PONDED AREA, EITHER WING, AND MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS HAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM SSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING R DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE IDENTIFY AND PREVENT CONTAMINATION BY

11.8 ADDITIONAL REQUIR SITE—SPECIFIC BASIS. 11.7 STREET SWEEPING: DAILY BASIS. TRACKED ONTO THE PUBLIC BE APPLIED 2

MINIMUM EROSION CONTRA RESPONSIBLE TO MAINTAIN STABILIZED. HOWEVER, BA EROSION CONTROL MEASL MUST BE REPAIRED IMMEI FULLY STABILIZED OR VEC

GENERAL NOTE:
ALL EROSION AND
MDOT ITEM 656.

BASIC STANDARDS — EROSION CONTROL MEASURES
MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO
MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE
MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE
AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED.
ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE
MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE
MAINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE. DEWATERING
A DEWATERING PLAN IS NEEDED TO ADDRESS EXCAVATION DE-WATERING FOLLOWING HEAVY RAINFALL EVENTS OR WHERE THE
EXCAVATION MAY INTERCEPT THE GROUNDWATER TABLE DURING CONSTRUCTION. THE COLLECTED WATER NEEDS TREATMENT
AND A DISCHARGE POINT THAT WILL NOT CAUSE DOWNGRADIENT EROSION AND OFFSITE SEDIMENTATION OR WITHIN A
RESOURCE. PLEASE FOLLOW THE DETAILS OF SUCH A PLAN. OT GRADING AND DRIVEWAY LOCATION
NSPECTIONS A PROFESSIONAL ENGINEER WILL CONSIST OF A VISIT TO THE SITE PRIOR TO CONSTRUCTION TO CONSULT WITH
THE EARTHWORK CONTRACTOR AND A POST CONSTRUCTION MEETING TO CONFIRM GRADING ON LOTS AND FOR ALL DRIVEWAYS
TO ENSURE RUNOFF IS DIRECTED ACCORDING TO PLANS AND TO OVERSEE THE RE-STABILIZATION OF THE LOT INTO A
VEGETATED COVER. ASIC STANDARDS — EROSION CONTROL MEASURES INFLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO INMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO AINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE ND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED. IN STABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE AINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE AINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE ALL STORMWATER MANAGEMENT STRUINSTRUCTION PLAN FOR THE CONTRACT ABILIZED, THE INSPECTING ENGINEER WIS BEEN COMPLETED. ACCOMPANYING ING THE DATE OF EACH INSPECTION, TLUDE ANY TESTING DATA OR SIEVE AND USED ON SITE.

NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY, 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT. IF PONDING IS ANTICIPATED OR OCCURS EXTRA NEEDEL NED SEDIMENT SHALL BE DEPOSITED REA THAT WILL NOT CONTRIBUTE TOFF—SITE AND CAN BE PERMANENTLY RENCH DETAIL STRENGTH FILTER FABI MITHOUT WIRE MESH 4"x6" (100 X 150mm) TRENCH WITH COMPACTED BACKFILL LEDGE, FROZEN GROUND, HEAVY ROOTS INSTALLATION WITHOUT TRENCHING SILT FENCE IS STEEL OR WOOD POST 36" (1m) HIGH MAX. WIRE SUPF WIRE SUPF 6' (1.8m) WIRE SUPF IF INSTALLED PER MANUFAC 3/4" (20mm) CLEAN STONE (200.

'D' = PIPE DIAMETER

SECTION

X D (12" MIN.)

LAYER THICKNESS 2.25 X D50

DO NOT PLACE SILT FENCE IN STREAMS OR NCENTRATED FLOW CONDITIONS. SILT FENCE

PLAN

HARD ANGULAR , D50 = 4"

APRON LENGTH +1D

PIPE OUTLET PROTECTION

UPING LOW FLOWS.

UPE OUTLET PROTECTION

H OF BOTTOM AND

WHICHEVER IS LESS.

ISION CONTROL MIX BERMS

SION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE PROJECT SITE. IT MUST CONSIST MARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE REDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED DUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD DUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX. IPOSITION
ISION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY
ITAIN ROCKSLESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE,
SICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL
IT THE FOLLOWING STANDARDS:

EORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100%, DRY WEIGHT BASITICLE SIZE BY WEIGHT SHALL BE 100 % PASSING A 6" SCREEN AND A MINIMUM OF 5%, PASSING A 0.75" SCREEN.

E ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.

EORGANIC PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX UBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM. 100%, DRY WEIGHT BASIS. EEN AND A MINIMUM OF 70 %,

THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.

ON SLOPES LESS THAN 5 % OR AT THE BOTTOM OF STEEPER SLOPES (<2:1) UP TO 20 FEET LONG, THE BARRIER MUST BE A MINIMUM OF 12" HIGH, AS MEASURED ON THE UPHILL SIDE OF THE BARRIER, AND A MINIMUM OF TWO FEET WIDE. ON LONGER OR STEEPER SLOPES, THE BARRIER SHOULD BE WIDER TO ACCOMMODATE THE ADDITIONAL RUNOFF.

FROZEN GROUND, OUTCROPS OF BEDROCK AND VERY ROOTED FORESTED AREAS ARE LOCATIONS WHERE BERMS OF EROSION CONTROL MIX ARE MOST PRACTICAL AND EFFECTIVE.

OTHER BMPS SHOULD BE USED AT LOW POINTS OF CONCENTRATED RUNOFF, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS, AND AT THE BOTTOM OF STEEP PERIMETER SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM (I.E., A LARGE UP GRADIENT CONTRIBUTING WATERSHED).

* FOR USE AS REINFORCED MULCH BERM 2 ROWS OF EROSION MIX MUST BE INSTALLED SUPPORTED BY A MINIMUM OF 1 ROW OF HAY BALES UPSTREAM. MULCH FLOW \mathbf{BERM}

SECTION-UNREINFORCED RETAII NING WALL

NOT **THS** PLAN IS FOR REVIEW PURPOSES ONLY AND IS INTENDED FOR CONSTRUCTIONOR RECORDING

	Revision:	Ву:	Date:	Change:
PROJECT NUMBER: 40323	ACAD FILE: 40323-SITE.DWG	LE: 403	\$23–SITE	E.DWG SCALE: 1" = 10' DATE: APRIL 10, 2014
	Drawing Name:		∞	EROSION & SEDIMENTATION CONTROL NOTES
	AND	DE	AND DETAILS	
	$^{ ext{Project Name}}$	JSE	ATSI	ERGY BUILDING
	& €	ARE ISLAND,	TAKI PORTLAN	& CARETAKER RESIDENCE
	CLIENT:			

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