



January 18, 2023 16103

Carol Eyerman, AICP, Town Planner Brianna Freeman, Administrative Assistant Planning and Development Department 75 South Street, Gorham, ME 04038

#### Response to Preliminary Comments on 01/09/23 9 Hutcherson Drive, Gorham

Dear Carol:

This letter and the associated attachments are provided in response to the comments dated January 9, 2023. We have organized the responses to restate each review comment in *italics*, followed by our response in **bold**.

#### Planning Division:

1. An Army Corp permit is needed for wetland disturbance.

Response: Please see the enclosed Army Corp approval.

2. Existing condition site plan should be updated to include the previous addition.

Response: The additional survey work has been completed and the Existing Conditions Plan is in the process of being updated. It is not anticipated the changes in the existing conditions will have an effect on the proposed project. The revised existing conditions plan will be provided to Town staff as soon as it is completed.

3. The parking areas are required to be broken up with landscaping.

Response: Landscaping has been added to split the proposed parking area on the south and sides of the building. These changes remove two parking spaces, hence bringing the proposed total to (46) forty-six. Please see the revised Site Plan (Sheet 3). The slightly decreased parking total stills remains well above the required minimum (per Ordinance), and works to alleviate existing parking issues as well as accommodates future growth.

4. In her review dated November 10, 2022, Becca Settele, Wildlife Biologist from Maine Inland Fisheries and Wildlife, recommends a vernal pool delineation to be conducted for this area.

Response: Please see the enclosed memo from Gary Fullerton regarding the potential for vernal pools in the wetlands on-site. The memo was emailed to Inland Fisheries and Wildlife, and acceptance was acknowledged.

5. Revised plans were submitted on January 3, 2023 in response to comments provided by Wright Pierce, peer review engineer. Staff sent the plan response back to them for review. As of this writing, staff has not received comments back from the peer reviewer.

Response: We are still awaiting feedback and response from the peer review engineer.

#### Fire Department:

1. No State Construction Permit needed.

#### Response: Acknowledged.

2. Please forward Gorham Fire a PDF of the Building Plans set and Approved for Construction.

Response: Building Plans and plans approved for construction will be sent to Gorham Fire after local approval.

3. Sprinkler Plans submitted to State and Gorham Fire at least 2 weeks before starting work for plans review and approval.

Response: A note has been added to the Notes and Legend Sheet stating, "Prior to installing the sprinkler system, the applicant shall submit the sprinkler plans to the state Fire Marshal's office and the Gorham fire department for review and permitting with the plans being submitted at least 2 weeks prior to the installation of the system." Please see Utility Note 11 on Notes and Legend Plan (Sheet 2).

4. Fire alarm added to the addition per NFPA 72. Added alarm system plans submitted to Gorham Fire for approval.

Response: A note has been added to the Notes and Legend Sheet stating, "The building shall meet all applicable sections of the NFPA 72. Prior to installing the alarm system, the applicant shall submit the alarm system plans to the Gorham fire department for review and permitting with the plans being submitted at least 2 weeks prior to the installation of the system." Please see Utility Note 12 on Notes and Legend Plan (Sheet 2).

5. Emergency lighting per NFPA 101 and NFPA 1.

Response: A note has been added to the Notes and Legend Sheet stating "The building shall meet all applicable sections of the NFPA 101 life safety code and the NFPA fire prevention cone 1." Please see Utility Note 10 on Notes and Legend Plan (Sheet 2).

6. If rack storage is being used, the sprinkler system needs to be designed to accommodate that rack storage.

Response: Acknowledged. If rack storage is to be used in the building, the sprinkler system will be designed to accommodate it.

7. Hazardous Chemicals? Storage?

Response: There will be no hazardous chemicals stored in the building addition.

8. Vehicles stored in the Building?

Response: There is no vehicle storage anticipated in the building addition. The overhead door will be used for loading and unloading equipment that does not pass through a conventional sized door.

#### Planning Comments:

1. The planning board asked about the number of peak hour trips associated with the increase in employees.

Response: There are currently 35 employees and an anticipated addition of 10 more employees over the next five years. The peak hour trip calculation for the AM and PM peak hour trips is based on the existing lot use categorized as a "Specialty Trade Contractor". For the existing 35 employees the AM and PM peak hour trips are 26 total trips in the AM and 28 total trips in the PM. The AM and PM peak hour trips for the proposed addition of 10 employees (45 total employees) are 33 total trips in the AM and 36 total trips in the PM. This level of vehicular activity anticipated by this proposed building addition does not trigger the threshold for a local traffic study for the Town of Gorham nor does it meet the required standards for an individual Traffic Movement Permit from the Maine Department of Transportation (100 peak hour trips).

2. Show the dumpster location.

Response: The existing dumpster location was added to the Site Plan (Sheet 3).

3. Applicant states that 70% of the site will be impervious and the Maine Department of Environmental Protection (DEP) Site Law approval was for up to 75% impervious cover. Applicant to provide Maine DEP approval to verify this statement.

Response: This comment was previously responded to in the 01/03/2023 comment response. Update: We have continued to work with the Town Planning Department and MDEP to locate the plans associated with the original subdivision plan for the Gorham Industrial Park (Permit #L-000003-39-F-N) but they have been having a difficult time locating the plans. Sebago has worked on a number of projects within Gorham Industrial Park, and it has been our understanding that the typical 75% impervious threshold applies to the ServPro site. Carol Eyerman, AICP, Town Planner 16103

Upon your review of our responses, please contact me if you have any questions.

Sincerely,

SEBAGO TECHNICS, INC.

Craig Burgess

Craig A. Burgess, P.E. Senior Project Manager

CAB/jsh



DEPARTMENT OF THE ARMY NEW ENGLAND DISTRICT, CORPS OF ENGINEERS 696 VIRGINIA ROAD CONCORD, MASSACHUSETTS 01742-2751

Regulatory Division CENAE-RDC NAE-2022-02711 December 1, 2022

Jared Lamey Coah Building, LLC. 9 Hutcherson Drive Gorham, Maine 04038 jared@servproportland.me cburgess@sebagotechnics.com

Dear Applicant:

We recently reviewed your proposal to place 1,600 square feet of fill within freshwater wetlands at 9 Hutcherson Drive in Gorham, Maine in order to expand an existing commercial building. The work is shown on the attached plans entitled "LOCATION MAP JARED LAMEY" on 1 sheet dated "9/29/2022" and "GRADING AND UTILITY PLAN" on 1 sheet and dated "10/20/2022"

On October 14, 2020, we issued General Permits that, subject to our discretion, eliminates the need for individual Department of the Army permits for certain work that is regulated in the State of Maine. Your project as proposed and as shown on the attachments received by the Corps qualifies for self-verification under Maine General Permit 8, Residential, Commercial and Institutional Developments, and Recreational Facilities. No further action is necessary from the Corps on this project.

Please note, no work may be started unless and until all other required local, State and Federal licenses and permits have been obtained. If any change in the plans or construction methods is found necessary, please contact us immediately to discuss modification of your permit. Any change must be approved before it is undertaken. All work is subject to the terms and conditions contained in the general permit.

Please refer to identification number NAE-2022-02711 in any correspondence concerning this project. If you have any questions on this matter, please contact Colin Greenan of my staff at 978-318-8171 or Richard.C.Kristoff@usace.army.mil at our Augusta, Maine Project Office.

Good luck with your project.

Sincerely,

Richard Digitally signed by Richard Kristoff Jr. Kristoff Jr. 13:15:51-05'00'

For Frank J. Del Giudice Chief, Permits & Enforcement Branch Regulatory Division



# Memorandum

To: Craig Burgess, PE

From: Gary Fullerton, CSS, LSE

Date: January 11, 2023

Project: #16103 – ServPro – 9 Hutcherson Drive, Gorham

I mapped wetlands at 9 Hutcherson Drive in Gorham in May 2016. I then visited the site in July 2022 to review and update the wetlands. When mapping the wetlands in May 2016, I did not find any areas that were indicative of vernal pools. None of the wetlands contained more than approximately 4 inches of standing water and no egg masses of indicator species as listed by the Maine DEP were present. A portion of the wetlands mapped in 2016 were permitted to be filled for the approved addition. In my opinion, the remaining wetlands do not contain significant or non-significant vernal pools.





# Sheet List Table

SHEET	TITLE
1	COVER SHEET

- NOTES AND LEGEND 2
- SITE PLAN 3
- GRADING AND UTILITY PLAN
- **EROSION CONTROL NOTES**
- DETAILS 6
- DETAILS 7
  - EXISTING CONDITIONS PLAN BUILDING FLOOR PLAN AND ELEVATION BUILDING RENDERING



EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	DEED LINE/R.O.W.	
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	BUFFER	
	FLOODPLAIN	
	FLOODWAY	
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0	DRILL HOLE	•
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	ZONE LINE ON PL	
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	SURVEY CONTROL	
	TEST PIT	
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	BORING	
	OVERHANG	
	EDGE WETLAND	
	WETLANDS	
	STREAM	
	LEDGE	
	EDGE PAVEMENT	
	PAVEMENT SAWCUT	
	EDGE CONCRETE	A 4 44
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
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## GENERAL NOTES:

THE RECORD OWNER OF THE PARCEL IS COAH BUILIDING LLC. BY DEED DATED RECORDED AT THE CUMBERLAND COUNTY REGISTRY OF DEEDS IN BOOK 37102.

2.	THE PROPERTY IS SHOWN AS BLOCK 23 LOT 3 ON THE TOWN OF LOCATED IN THE INDUSTRIAL (I) DISTRICT. MUNICIPAL SPACE AND BULK REQUIREMENTS: MINIMUM LOT AREA MINIMUM STREET FRONTAGE	GORHAM TAX MAP 12 AND IS NONE NONE
	MINIMUM FRONT YARD MINIMUM SIDE & REAR YARDS MAXIMUM HEIGHT MAXIMUM BUILDING COVERAGE	30' 20' OR 50% BUILDING HEIGHT NONE NONE
3.	TOTAL PARK COVENANTS FROM GREATER PORTLAND BUILDING SPECIFY THE FOLLOWING SPACE AND BULK REQUIREMENTS:	FUND TO THE REECE CORPORA
	MIN. SETBACK OFF BARTLETT ROAD MIN. SETBACK OFF DEDICATED OR ACCEPTED STREET MIN. SETBACK SIDE OR REAR YARD MAX. RATIO TO BUILDING MIN. PARKING	100' 50' 50' 3 TO 1 1 PER EMPLOYEE
	SEE DEED FOR ADDITIONAL REQUIREMENTS	
4.	TOTAL AREA OF PARCEL IS APPROXIMATELY 1.4 ACRES.	
5.	BOUNDARY INFORMATION DEPICTED HEREON IS FROM PLAN RE INC. HAS NOT PERFORMED AN INDEPENDENT BOUNDARY RETRA PROPERTY. TOPOGRAPHIC INFORMATION SHOWN HEREON IS B. PERFORMED BY SEBAGO TECHNICS IN APRIL 2016 AND GROUND PUBLICLY AVAILABLE FROM NOAA THAT WAS FLOWN IN 2013. SE GRADING AND UTILITY PLAN.	FERENCE 6A. SEBAGO TECHNIC ICEMENT SURVEY OF THIS ASED UPON A FIELD SURVEY TRUTHED LIDAR INFORMATION E DELINEATION LINE ON THE
6.	PLAN REFERENCES: A. REVISED PLAN GORHAM INDUSTRIAL PARK, GORHAM, MA GORHAM, MAINE, DATED DECEMBER 20, 1988, PLAN BOOM	INE, BY ALLIED ENGINEERING IN ( 182, PAGE 30.
7.	PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORI 1802-NAD83, ELEVATIONS DEPICTED HEREON ARE NAVD88, BASE OBSERVATIONS.	DINATE SYSTEM, WEST ZONE ED ON DUAL FREQUENCY GPS
8.	UTILITY INFORMATION DEPICTED HEREON IS COMPILED USING P FIELD. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REI CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAF AND FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION	HYSICAL EVIDENCE LOCATED IN PRESENT ALL EXISTING UTILITIE FE SYSTEMS, INC. (1-888-DIG-SAF N AND/OR EXCAVATION.
9.	THE LOCUS PROPERTY AS DEPICTED HEREON DOES NOT FALL V AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FO COUNTY, COMMUNITY-PANEL NUMBER 2300470030B, HAVING AN 1981. THE LOCUS FALLS WITHIN AN AREA IDENTIFIED AS ZONE C	VITHIN A SPECIAL FLOOD HAZAR R GORHAM, MAINE, CUMBERLAN EFFECTIVE DATE OF OCTOBER , AREAS OF MINIMAL FLOODING.
10.	A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT S FULLERTON, CSS, SEBAGO TECHNICS, INC. THIS DELINEATION OF METHODS OUTLINED IN THE 1987 WETLANDS DELINEATION MAN SUPPLEMENT AUTHORED AND PUBLISHED BY THE U.S. ARMY CC FLAGS WERE LOCATED USING A TRIMBLE BACKPACK GPS UNIT OF	SITE IN JULY, 2022 BY GARY M. CONFORMS TO THE STANDARDS JAL AND NORTHEAST REGIONAL DRPS OF ENGINEERS. ALL WETL CAPABLE OF DECIMETER ACCUR
11.	ALL WORK SHALL CONFORM TO THE APPLICABLE CODES AND O	RDINANCES.
12.	CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIM OR HI AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISION CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIM DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIR ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIC WORK.	ERSELF WITH ALL CONDITIONS IS AS TO THE COST THEREOF. OR HERSELF WITH ALL CONTRAC MING THAT THE WORK MAY BE TRUCTION. ANY DISCREPANCIES OR TO THE COMMENCEMENT OF
13.	CONTRACTOR SHALL NOTIFY ENGINEER OF ALL PRODUCTS OR I ARE NOT FOUND IN THE FIELD.	TEMS NOTED AS "EXISTING" WH
14.	PROVIDE ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WIT RECOMMENDATIONS AND OWNER'S REQUIREMENTS UNLESS SP OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE	H MANUFACTURER'S ECIFICALLY OTHERWISE INDICA E.
15.	CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS S ATTENTION OF THE ENGINEER.	IN THE FIELD PRIOR TO FABRIC HALL BE REPORTED TO THE
16.	CONTRACTOR SHALL CLEAN AND REMOVE DEBRIS AND SEDIMEN SIDEWALKS, ADJACENT AREAS, OR OTHER PUBLIC WAYS DUE TO	NT DEPOSITED ON PUBLIC STRE
17.	CONTRACTOR SHALL INCORPORATE PROVISIONS AS NECESSAR EXISTING STRUCTURES, PHYSICAL FEATURES, AND MAINTAIN SI CONSTRUCTION. CONTRACTOR SHALL RESTORE ALL AREAS TO DIRECTED BY DESIGN DRAWINGS.	Y IN CONSTRUCTION TO PROTE TE STABILITY DURING ORIGINAL CONDITION AND AS
18.	SITE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIC	R TO CONSTRUCTION.
19.	THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL SITE FEATURE FIELD OBSERVATIONS BY THE SURVEYOR AND BY INFORMATION THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OF SHALL CONTACT DIG SAFE (811) AT LEAST THREE (3) BUT NOT MUT TO COMMENCEMENT OF EXCAVATION OR DEMOLITION TO VERIFIC LOCATION OF ALL UTILITIES.	IRES SHOWN HEREON ARE BASE I PROVIDED BY UTILITY COMPAN R COMPLETE. THE CONTRACTOR ORE THAN THIRTY (30) DAYS PRI Y HORIZONTAL AND VERTICAL
20.	CONTRACTOR SHALL BE AWARE THAT DIG SAFE ONLY NOTIFIES DIG. WHEN NOTIFIED, DIG SAFE WILL ADVISE CONTRACTOR OF M CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND CONTACT DIRECTLY. NON-MEMBER UTILITIES MAY INCLUDE TOWN OR CITY SMALL LOCAL UTILITIES, AS WELL AS USG PUBLIC WORKS SYSTE	ITS "MEMBER" UTILITIES ABOUT IEMBER UTILITIES IN THE AREA. 'ING NON-MEMBER UTILITIES ' WATER AND SEWER DISTRICTS EMS.
21.	CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH 3360-A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR APPROPRIATE UTILITIES TO OBTAIN AUTHORIZATION PRIOR TO F UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENT UTILITY CONFLICT ARISES, THE CONTRACTOR SHALL IMMEDIATE MUNICIPALITY AND APPROPRIATE UTILITY COMPANY PRIOR TO F	THE REQUIREMENTS OF 23 MR TO COORDINATE WITH THE RELOCATION OF ANY EXISTING TS SHOWN ON THESE PLANS. IF ELY NOTIFY THE OWNER, THE PROCEEDING WITH ANY RELOCA
22.	ALL PAVEMENT MARKINGS AND DIRECTIONAL SIGNAGE SHOWN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)	ON THE PLAN SHALL CONFORM
23.	ALL PAVEMENT JOINTS SHALL BE SAWCUT PRIOR TO PAVING TO JOINT.	PROVIDE A DURABLE AND UNIF
24.	NO HOLES, TRENCHES OR STRUCTURES SHALL BE LEFT OPEN C ACCESSIBLE TO THE PUBLIC OR IN PUBLIC RIGHTS-OF-WAY.	VERNIGHT IN ANY EXCAVATION
25.	IMMEDIATELY UPON COMPLETION OF CUTS/FILLS, THE CONTRAC AREAS IN ACCORDANCE WITH EROSION CONTROL NOTES AND A	CTOR SHALL STABILIZE DISTURB S SPECIFIED ON PLANS.
26.	THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE AND RECTIFICATION OF ALL DAMAGED AND DEFECTIVE MATERIA CONNECTION WITH THE CONTRACT WORK. THE CONTRACTOR S DIRECTED BY THE OWNER ALL SUCH DAMAGED OR DEFECTIVE M PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPL	FOR THE REMOVAL, REPLACEMING AND WORKMANSHIP IN HALL REPLACE OR REPAIR AS MATERIALS WHICH APPEAR WITH ETION.
27.	ALL WORK PERFORMED BY THE GENERAL CONTRACTOR AND/OF CONFORM TO THE REQUIREMENTS OF LOCAL, STATE OR FEDER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED ON	R TRADE SUBCONTRACTOR SHA AL LAWS, AS WELL AS ANY OTHE THE DRAWINGS.
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29.	THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY F TURNED OVER TO THE OWNER.	PROTECTION FOR THE WORK UN

30. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES.

AUGUST 24, 2020 AND , PAGE 158.	31
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PRIOR TO ANY WORK.

PROJECT AREA NEAT AND PRESENTABLE.

APPROVAL BY THE DESIGN ENGINEER.

AND BUILDING DRAWINGS.

UTILITY DEMOLITION NOTES

ANY TEMPORARY SERVICES THAT WILL BE NEEDED.

**GRADING & EROSION NOTES** 

BLANKET, OR ADDITIONAL MEASURES AS INDICATED.

4. SEE UTILITY DRAWINGS FOR PIPE AND STRUCTURE DATA TABLES.

CONTROL PLAN AT ALL TIMES.

THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF

DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. ANY MODIFICATION TO SUIT FIELD

BEFORE THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL

TO THE PROJECT WHICH HAVE BEEN OBSTRUCTED BY HIS/HER OPERATIONS, AND LEAVE THE

34. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE EXISTING CLOSED

STORM DRAINAGE SYSTEM DURING CONSTRUCTION AND SHALL SUBMIT A WORK PLAN FOR

1. PROTECT EXISTING BOUNDARY LINE MONUMENTATION. IF DISTURBED, EXISTING MONUMENTATION TO BE RESET BY A PROFESSIONAL LAND SURVEYOR.

2. PROTECT EXISTING UTILITIES NOT CALLED OUT TO BE REMOVED DURING CONSTRUCTION.

3. DEMOLITION SHOWN IS FOR MAJOR SITE ELEMENTS TO BE DEMOLISHED. OTHER MINOR

DEMOLITION MAY BE REQUIRED AS PART OF CONSTRUCTION AND SHALL BE CONSIDERED

4. PRIOR TO ANY DEMOLITION, THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF DEMOLITION

8. CONTRACTOR REQUIRED TO CONFIRM/MAINTAIN BENCHMARKS. IF IMPACTED CONTRACTOR IS

RESPONSIBLE FOR NOTIFICATION/RELOCATION AND COORDINATION WITH PROJECT TEAM.

INCIDENTAL TO THE COST OF CONSTRUCTION. COORDINATE ALL DEMOLITION WORK WITH SITE

PLANS TO THE OWNER. THIS PLAN SHALL DEPICT LOCATIONS OF PROPOSED TERMINATIONS AND

1. SIDESLOPES SHALL NOT BE STEEPER THAN 3:1 (H:V) EXCEPT AS OTHERWISE IDENTIFIED ON THIS

PLAN. ALL SIDESLOPES STEEPER THAN 3:1 (H: V) SHALL BE LINED WITH EROSION CONTROL

2. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "<u>MAINE EROSION AND SEDIMENT CONTROL BMPS</u>" MANUAL PUBLISHED BY BUREAU OF LAND AND WATER QUALITY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION. IT

SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION

SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL.

3. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS

DIMENSION AND CONDITION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL

EQUIPMENT AND MATERIALS, REPAIR OR REPLACE PRIVATE OR PUBLIC PROPERTY WHICH MAY HAVE BEEN DAMAGED OR DESTROYED DURING CONSTRUCTION, CLEAN THE AREAS WITHIN AND ADJACENT

APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.

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BY GARY M. STANDARDS AND AST REGIONAL RS. ALL WETLAND METER ACCURACY.

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# UTILITY NOTES

- 1. UTILITY INFORMATION DEPICTED HEREON IS COMPILED USING PHYSICAL FIELD. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESEN CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTI AND FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION AND/OF EXISTING ONSITE SEWER PIPE AND ADJUST MANHOLE RIMS TO GRADE
- 2. ALL GRAVITY CONDUIT PIPES SHALL BE INSTALLED USING A PIPE LASER A THROUGH THE PIPE. ON PIPE RUNS 50 FEET OR LESS, THE CONTRACTOR ENGINEER'S APPROVAL TO USE OR NOT USE A GROUND LASER.
- 3. PIPE: • SEWER PIPE SHALL BE SDR 35 PVC OR APPROVED EQUAL.
  - FORCEMAIN PIPE SHALL BE DR-11 HDPE OR APPROVED EQUAL. ٠ STORMDRAIN SHALL BE ADS N-12 DUAL WALL HDPE PIPE WITH SMO
  - APPROVED EQUAL UNLESS NOTED OTHERWISE ON THE UTILITY PL WATER PIPE AND FITTINGS SHALL CONFORM TO PORTLAND WATER SPECIFICATIONS. MAIN WATER SERVICE PIPE SHALL BE DUCTILE PIPE MEETING THE REQUIREMENTS OF AWWA/ANSI C-111/A21.11 (L SHALL BE CEMENT-LINED AWWA/ANSI C104/A21.4 WITH LINING TWIC SPECIFIED, AND COATED TWICE WITH A BITUMINOUS SEAL COATING BLOCKS AT ALL WATER SERVICE BENDS.
- 7. COORDINATE FOUNDATION UNDERDRAIN LOCATIONS WITH ARCHITECTUF DRAWINGS.
- 8. COORDINATE LOCATION OF FOUNDATION DRAINS AND ROOF DRAIN INVER ARCHITECTURAL DRAWINGS.
- 9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY GRADE CHANGE STORM DRAINAGE INFRASTRUCTURE OR OTHER UTILITIES.
- 10. THE BUILDING SHALL MEET ALL APPLICABLE SECTIONS OF THE NFPA 101 THE NFPA FIRE PREVENTION CODE 1.
- 11. PRIOR TO INSTALLING THE SPRINKLER SYSTEM, THE APPLICANT SHALL PLANS TO THE STATE FIRE MARSHAL'S OFFICE AND THE GORHAM FIRE I AND PERMITTING WITH THE PLANS BEING SUBMITTED AT LEAST 2 WEEKS INSTALLATION OF THE SYSTEM.
- 12. THE BUILDING SHALL MEET ALL APPLICABLE SECTIONS OF NFPA 72. PRIO ALARM SYSTEM, THE APPLICANT SHALL SUBMIT THE ALARM SYSTEM PLA DEPARTMENT FOR REVIEW AND PERMITTING WITH THE PLANS BEING SU PRIOR TO THE INSTALLATION OF THE SYSTEM.

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ERTS AT THE BUILDING WITH	OC PVC PWD	ON CENTE POLYVINYI PORTLANE
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OR TO INSTALLING THE ANS TO THE GORHAM FIRE JBMITTED AT LEAST 2 WEEKS	TC TW TYP VGC VIF	TOP OF CL TOP OF W/ TYPICAL VERTICAL VERIFY IN

PI	CAL ABBREVIATIONS
DX.	ACRE ABOVE FINISH GRADE APPROXIMATELY
	BOTTOM OF CURB BITUMINOUS CONCRETE CURB BITUMINOUS
	BUILDING BOTTOM OF WALL CATCH BASIN CONCRETE
	CONTINUOUS DUCTILE IRON DIAMETER
	DRAIN MANHOLE EACH WAY ELEVATION
२.	FINISH FLOOR ELEVATION FINISH GRADE FOOTING
	HEIGHT HOT MIX ASPHALT INVERT
	LINEAR FEET ON CENTER POLYVINYL CHLORIDE
	PORTLAND WATER DISTRICT RADIUS RIGHT OF WAY
	SQUARE FEET SCHEDULE SLIPFORM CONCRETE SLOPED CURB
	SLIPFORM CONCRETE VERTICAL CURB STORM DRAIN SLOPED GRANITE CURB SEWER MANHOLE SPECE SPECIFICATIONS
	SALAVAGED VERTICAL GRANITE CURB
	TOP OF CURB TOP OF WALL TYPICAL
	VERTICAL GRANITE CURB VERIFY IN FIELD

CRAIG BURGESS, PE 12638	CRAIG A. CRAIG A. BURGESS No 2638	11/1//////////////////////////////////
	ECAB01/24/2023RESUBMISSION FOR TOWN REVIEWDCAB01/20/2023RESUBMISSION FOR TOWN REVIEWCCAB01/18/2023RESUBMISSION FOR TOWN REVIEWBCAB01/03/2023RESUBMISSION FOR TOWN REVIEWACAB11/16/2022TOWN SUBMISSION	REV: BY: DATE: STATUS: THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS. INC.
	TECHNICS.COM	Suite 4A South Portland, ME 04106 Tel. 207-200-2100
	NOTES AND LEGEND OF: SERVPRO - BUILDING EXPANSION 9 HUTCHERSON DRIVE GORHAM, MAINE 04038 FOR: FOR:	B COMI DUILUING LLO 9 HUTCHERSON DRIVE GORHAM, MAINE 04038
	DRAWN A CHECKED C DATE 10/20 SCALE N PROJECT 16	BB AB 0/2022 1/A 103





	PARKING	SUMMARY	
ON	SIZE	REQUIRED	PROVIDED
PACE	9'X18'	18,900 SF BUILDING - 1 STANDARD / 1,000 SF = 19	44
ЭE	11'X18'	1 ADA / 25 STANDARD = 2	2
		TOTAL	46

## STATE OF MAINE

\_ COUNTY SS REGISTRY OF M. AND RECORDED PAGE

# TOWN OF GORHAM PLANNING BOARD

CHAIRPERSON

DATE

SITE PLAN	SERVPRO - BUIL 9 HUTCHERSON DRIVE	GORHAM, MAINE 04038 FOR: COALD DI III DINI	9 HUTCHERSON DRIVE GORHAM, MAINE 04038
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SCALE

PROJECT

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# GORHAM TAX MAP 12, LOT 3



CRAIG BURGESS, PE 12638	WINNER OF MANULL	IIII A COMMENT A YOU		CRAIGA.	BURGESS No. 9638	Fan Sware	CINSCA STATE	N// NONAL A	01/20/2023
			E CAB 01/24/2023 RESUBMISSION FOR TOWN REVIEW	D CAB 01/20/2023 RESUBMISSION FOR TOWN REVIEW	C CAB 01/18/2023 RESUBMISSION FOR TOWN REVIEW	B CAB 01/03/2023 RESUBMISSION FOR TOWN REVIEW	A CAB 11/16/2022 TOWN SUBMISSION	REV: BY: DATE: STATUS:	THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS. INC.
				うてコーう	TECHNICS	WWW.SEBAGOTECHNICS.COM	75 John Roberts Rd.	Suite 4A	South Portland, ME 04106 Tel. 207-200-2100
					9 HUTCHERSON DRIVE	GORHAM, MAINE 04038	FOR:		9 HUTCHERSON DRIVE GORHAM, MAINE 04038
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# **EROSION CONTROL MEASURES**

### PRE-CONSTRUCTION PHASE

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS (SILT FENCE) WILL BE STAKED/INSTALLED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR, JUST, ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED. EROSION. THE PLACEMENT OF SEDIMENT BARRIERS SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES. ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THIS EROSION CONTROL PLAN AND DETAILS IN THIS PLAN SET. THIS NETWORK IS TO BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

PRIOR TO ANY CLEARING OR GRUBBING, A CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED AT THE INTERSECTION OF THE PROPOSED ENTRANCES AND EXISTING ROADWAY TO AVOID TRACKING OF MUD, DUST AND DEBRIS FROM THE SITE.

PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE AND MARKED UP PLAN INDICATING AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE MUNICIPAL STAFF. THREE COPIES OF THE SCHEDULE AND MARKED UP PLAN SHALL BE PROVIDED TO THE MUNICIPALITY THREE DAYS PRIOR TO THE SCHEDULED PRE-CONSTRUCTION MEETING. SPECIAL ATTENTION SHALL BE GIVEN TO THE 14 DAY LIMIT OF DISTURBANCE IN THE SCHEDULE ADDRESSING TEMPORARY AND PERMANENT VEGETATION MEASURES.

CONSTRUCTION AND POST-CONSTRUCTION PHASE

AREAS UNDERGOING ACTUAL CONSTRUCTION SHALL ONLY EXPOSE THAT AMOUNT OF MINERAL SOIL NECESSARY FOR PROGRESSIVE AND EFFICIENT CONSTRUCTION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD, SUCH AS ACTIVE EXCAVATION AND ACTIVE GRADING. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS ACTIVELY OCCURRING OR CAN BE MULCHED IN THE SAME DAY. OPEN AREAS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL AS SHOWN ON THE DESIGN PLANS AND AS DESCRIBED WITHIN THIS EROSION CONTROL PLAN WITHIN SEVEN (7) DAYS OF DISTURBANCE. AREAS LOCATED WITHIN 100 FEET OF STREAMS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL WITHIN SEVEN (7) DAYS. REFER TO WINTER EROSION CONTROL NOTES FOR THE TREATMENT OF OPEN AREAS AFTER OCTOBER 1ST OF THE CONSTRUCTION YEAR.

THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

#### EROSION CONTROL APPLICATIONS & MEASURES

THE PLACEMENT OF EROSION CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THE PLAN SET.

### 1. TEMPORARY MULCHING:

ALL DISTURBED AREAS SHALL BE MULCHED WITH MATERIALS SPECIFIED BELOW PRIOR TO ANY STORM EVENT. ALL DISTURBED AREAS NOT FINAL GRADED WITHIN 14 DAYS SHALL BE MULCHED. DISTURBED AREAS ADJACENT TO NATURAL RESOURCES THAT ARE NOT GRADED WITHIN SEVEN (7) DAYS SHALL BE MULCHED. ALSO, AREAS, WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED. SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING. EROSION CONTROL BLANKETS ARE RECOMMENDED TO BE USED AT THE BASE OF GRASSED WATERWAYS AND ON SLOPES GREATER THAN 33%. MULCH ANCHORING SHOULD BE USED ON SLOPES GREATER THAN 5% AFTER SEPTEMBER 15TH OF THE CONSTRUCTION YEAR (SEE WINTER EROSION CONTROL NOTES). TYPES OF MULCH:

HAY OR STRAW: SHALL BE APPLIED AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE).

EROSION CONTROL MIX: SHALL BE PLACED EVENLY AND MUST PROVIDE 100% SOIL COVERAGE. EROSION CONTROL MIX SHALL BE APPLIED SUCH THAT THE THICKNESS ON SLOPES 3:1 OR LESS IS 2 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THE THICKNESS ON SLOPES BETWEEN 3:1 AND 2:1 SHALL BE 4 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THIS SHALL NOT BE USED ON SLOPES GREATER THAN 2:1.

EROSION CONTROL BLANKET: SHALL BE INSTALLED SUCH THAT CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL IS OBTAINED. INSTALL BLANKETS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

### 2. SOIL STOCKPILES:

STOCKPILES OF SOIL OR SUBSOIL SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO THE STOCKPILE.

#### 3. NATURAL RESOURCES PROTECTION:

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES SHALL BE MULCHED USING TEMPORARY MULCHING (AS DESCRIBED IN PART 1 OF THIS SECTION) WITHIN 7 DAYS OF EXPOSURE OR PRIOR TO ANY STORM EVENT. SEDIMENT BARRIERS (AS DESCRIBED IN PART 4 OF THIS SECTION) SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE

#### 4. SEDIMENT BARRIERS:

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS SHALL BE STAKED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION SEDIMENT BARRIERS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT FROSION

SILT FENCE: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE EFFECTIVE HEIGHT OF THE FENCE SHALL NOT EXCEED 36 INCHES. IT IS RECOMMENDED THAT SILT FENCE BE REMOVED BY CUTTING THE FENCE MATERIALS AT GROUND LEVEL SO AS TO AVOID ADDITIONAL SOIL DISTURBANCE.

HAY BALES: SHALL NOT BE INSTALLED ADJACENT TO WETLAND. INSTALL PER THE DETAIL ON THE PLANS. BALES SHALL BE WIRE-BOUND OR STRING-TIED AND THESE BINDINGS MUST REMAIN PARALLEL WITH THE GROUND SURFACE DURING INSTALLATION TO PREVENT DETERIORATION OF THE BINDINGS. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER

EROSION CONTROL MIX: SHALL NOT BE USED ADJACENT TO WETLANDS. INSTALL PER THE DETAIL ON THE PLANS. THE MIX SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL AND CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4 INCHES IN DIAMETER. THE MIX COMPOSITION SHALL MEET THE STANDARDS DESCRIBED WITHIN THE MDEP BEST MANAGEMENT PRACTICES. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER. EROSION CONTROL MIX BERMS SHALL NOT BE USED AT THE BOTTOM OF STEEP SLOPES (>8%) OR SLOPES WITH FLOWING WATER.

CONTINUOUS CONTAINED BERM: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THIS SEDIMENT BARRIER IS EROSION CONTROL MIX PLACED WITHIN A SYNTHETIC UBULAR NETTING AND PERFORMS AS A STURDY SEDIMENT BARRIER THAT WORKS WELL ON HARD GROUND SUCH AS FROZEN CONDITIONS, TRAVELED AREAS OR PAVEMENT. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER.

#### 5. TEMPORARY CHECK DAMS:

SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. CHECK DAMS ARE TO BE PLACED WITHIN DITCHES/ SWALES AS SPECIFIED ON THE DESIGN PLANS IMMEDIATELY AFTER FINAL GRADING. CHECK DAMS SHALL BE 2 FEET HIGH. TEMPORARY CHECK DAMS MAY BE REMOVED ONLY AFTER THE ROADWAYS ARE PAVED AND THE VEGETATED SWALE ARE ESTABLISHED WITH AT LEAST 90% OF VIGOROUS PERENNIAL GROWTH. THE AREA BENEATH THE CHECK DAM MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER REMOVAL OF THE CHECK DAM.

STONE CHECK DAMS: STONE DAMS SHOULD BE CONSTRUCTED OF 2 TO 3 INCH STONE AND PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAT THE OUTER EDGES.

HAY BALE CHECK DAMS: BALES SHALL BE WIRE-BOUND OR STRING-TIED. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. HAY BALES SHALL BE PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAT THE OUTER EDGES.

MANUFACTURED CHECK DAMS: MANUFACTURED CHECK DAMS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF AUTHORIZED BY THE PROPER LOCAL. STATE OR FEDERAL REGULATING AGENCIES. THESE UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS.

### 6. STORMDRAIN INLET PROTECTION:

INLET PROTECTION SHALL BE PLACED AROUND A STORMDRAIN DROP INLET OR CURB INLET PRIOR TO PERMANENT STABILIZATION OF THE IMMEDIATE AND UPSTREAM DISTURBED AREAS. THEY SHALL BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN-OUT AND DISPOSAL OF TRAPPED SEDIMENTS AND MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES. ANY RESULTANT PONDING OF WATER FROM THE PROTECTION METHOD MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.

HAY BALE DROP INLET PROTECTION: WE DO NOT RECOMMEND THE USE OF HAY BALES AS INLET PROTECTION.

CONCRETE BLOCK AND STONE INLET SEDIMENT FILTER (DROP OR CURB INLET): SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE HEIGHT OF THE CONCRETE BLOCK BARRIER CAN VARY BUT MUST BE BETWEEN 12 AND 24 INCHES TALL. A MINIMUM OF 1 INCH CRUSHED STONE SHALL BE USED.

MANUFACTURED SEDIMENT BARRIERS AND FILTER (DROP OR CURB INLET): MANUFACTURED FILTERS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

#### 7. STABILIZED CONSTRUCTION ENTRANCE/EXIT:

PRIOR TO CLEARING AND/OR GRUBBING THE SITE A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED WHEREVER TRAFFIC WILL EXIT THE CONSTRUCTION SITE ONTO A PAVED ROADWAY IN ORDER TO MINIMIZE THE TRACKING OF SEDIMENT AND DEBRIS FROM THE CONSTRUCTION SITE ONTO PUBLIC ROADWAYS. THE ENTRANCES AND ADJACENT ROADWAY AREAS SHALL BE PERIODICALLY SWEPT TO FURTHER MINIMIZE THE TRACKING OF MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA. THE TERM "SWEEP" IS UNDERSTOOD TO MEAN REMOVAL AND RECOVERY OF TRACKED SEDIMENT WITH A STREET SWEEPER, NOT BRUSHING THE MATERIAL INTO SWALES OR STRUCTURES WITH A MECHANICAL BROOM. STABILIZED CONSTRUCTION EXITS SHALL BE CONSTRUCTED IN AREAS SPECIFIED ON THE PLANS AND AS DETAILED ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE UNTIL ALL DISTURBED AREAS ARE STABILIZED.

## DUST CONTROL:

DUST CONTROL DURING CONSTRUCTION SHALL BE ACHIEVED BY THE USE OF A WATERING TRUCK TO PERIODICALLY SPRINKLE THE EXPOSED ROADWAY AREAS AS NECESSARY TO REDUCE DUST DURING THE DRY MONTHS. APPLYING OTHER DUST CONTROL PRODUCTS SUCH AS CALCIUM CHLORIDE OR OTHER MANUFACTURED PRODUCTS ARE ALLOWED IF AUTHORIZED BY THE PROPER LOCAL, STATE AND/OR FEDERAL REGULATING AGENCIES. HOWEVER, IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO MITIGATE DUST AND SOIL LOSS FROM THE SITE. IF OFFSITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEPT IMMEDIATELY AND NOT LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS.

#### TEMPORARY VEGETATION:

TEMPORARY VEGETATION SHALL BE APPLIED TO DISTURBED AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR PERIODS UP TO 12 MONTHS. THIS PROCEDURE SHOULD BE USED EXTENSIVELY IN AREAS ADJACENT TO NATURAL RESOURCES. SEEDBED PREPARATION AND APPLICATION OF SEED SHALL BE CONDUCTED AS INDICATED IN THE PERMANENT VEGETATION SECTION OF THIS NARRATIVE. SPECIFIC SEEDS (FAST GROWING AND SHORT LIVING) SHALL BE SELECTED FROM THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUALS FOR CONTRACTORS AND ENGINEERS, 2016 OR LATEST REVISION. ALTERNATIVE EROSION CONTROL MEASURES SHOULD BE USED IF SEEDING CAN NOT BE DONE BEFORE SEPTEMBER 15TH OF THE CONSTRUCTION YEAR.

#### PERMANENT VEGETATION:

REVEGETATION MEASURES SHALL COMMENCE IMMEDIATELY UPON COMPLETION OF FINAL GRADING OF AREAS TO BE LOAMED AND SEEDED. THE APPLICATION OF SEED SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR, PLEASE REFER TO THE WINTER EROSION CONTROL NOTES FOR MORE DETAIL. REVEGETATION MEASURES SHALL CONSIST OF THE FOLLOWING:

### SEEDBED PREPARATION:

- A. FOUR (4) INCHES OF LOAM SHALL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE. LOAM SHALL BE FREE OF SUBSOIL, CLAY LUMPS, STONES AND OTHER OBJECTS OVER 2 INCHES OR LARGER IN ANY DIMENSION, AND WITHOUT WEEDS, ROOTS OR OTHER OBJECTIONABLE MATERIAL
- B. SOILS TESTS SHALL BE TAKEN AT THE TIME OF SOIL STRIPPING TO DETERMINE FERTILIZATION REQUIREMENTS. SOILS TESTS SHALL BE TAKEN PROMPTLY AS TO NOT INTERFERE WITH THE 14-DAY LIMIT ON SOIL EXPOSURE. BASED UPON TEST RESULTS, SOIL AMENDMENTS SHALL BE INCORPORATED INTO THE SOIL PRIOR TO FINAL SEEDING. IN LIEU OF SOIL TESTS, SOIL AMENDMENTS MAY BE APPLIED AS FOLLOWS:

APPLICATION RATE 18.4 LBS./1,000 S.F.

138 LBS./1,000 S.F.

TOTAI

## CALCIUM & MAGNESIUM OXIDE)

10-20-20 FERTILIZER

(N-P205-K20 OR EQUAL)

**GROUND LIMESTONE (50%** 

ITEM

C. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH PROPER EQUIPMENT. ROLL THE AREA TO FIRM THE SEEDBED EXCEPT ON CLAY OR SILTY SOILS OR COARSE SAND.

## APPLICATION OF SEED:

A. SEEDING: SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. GENERALLY A SEED MIXTURE MAY BE APPLIED AS FOLLOWS: ONSERVATION MIX

SEED TYPE
FESCUE, FAWN
BIRD'S FOOT TREFOIL, VARIETY NOT STATED
ANNUAL RYEGRASS
TIMOTHY, CLIMAX
ALSIKE CLOVER
REDTOP

APPLICATION RATE
0.34 LBS/1,000 S.F. (15 LBS/ACRE)
0.28 LBS/1,000 S.F. (12 LBS/ACRE)
0.18 LBS/1,000 S.F. (8 LBS/ACRE)
0.18 LBS/1,000 S.F. (8 LBS/ACRE)
0.11 LBS/1,000 S.F. (5 LBS/ACRE)
0.05 LBS/1,000 S.F. (2 LBS/ACRE)
1.14 LBS/1,000 S.F. (50 LBS/ACRE)

NOTE: A SPECIFIC SEED MIXTURE SHOULD BE CHOSEN TO MATCH THE SOILS CONDITION OF THE SITE. VARIOUS AGENCIES CAN RECOMMEND SEED MIXTURES. MDEP RECOMMENDED SEED MIXTURES ARE IN THE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 2016 OR LATEST REVISION.

B. HYDROSEEDING: SHALL BE CONDUCTED ON PREPARED AREAS WITH SLOPES LESS THAN 2:1. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. COMMENDED SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

C. MULCHING: SHALL COMMENCE IMMEDIATELY AFTER SEED IS APPLIED. REFER TO THE TEMPORARY MULCHING SECTION OF THIS NARRATIVE FOR DETAILS.

FOLLOWING SEEDBED PREPARATION, SOD CAN BE APPLIED IN LIEU OF SEEDING IN AREAS WHERE IMMEDIATE VEGETATION IS MOST BENEFICIAL SUCH AS DITCHES, AROUND STORMWATER DROP INLETS AND AREAS OF AESTHETIC VALUE. SOD SHOULD BE LAID AT RIGHT ANGLES TO THE DIRECTION OF FLOW, STARTING AT THE LOWEST ELEVATION. SOD SHOULD BE ROLLED OR TAMPED DOWN TO EVEN OUT THE JOINTS ONCE LAID DOWN. WHERE FLOW IS PREVALENT THE SOD MUST BE PROPERLY ANCHORED DOWN. IRRIGATE THE SOD IMMEDIATELY AFTER INSTALLATION. IN MOST CASES, SOD CAN BE ESTABLISHED BETWEEN APRIL 1ST AND NOVEMBER 15TH OF THE CONSTRUCTION YEAR, HOWEVER, REFER TO THE WINTER EROSION CONTROL NOTES FOR ANY ACTIVITIES AFTER OCTOBER 1ST.

### STANDARDS FOR TIMELY STABILIZATION:

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES -- THE CONTRACTOR WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE CONTRACTOR WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE MDEP WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (10H:1V) TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

A. STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A EEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM 2(C.) OF THIS STANDARD OR WITH STONE RIPRAP AS DESCRIBED IN ITEM 2(D.) OF THIS STANDARD.

SLOPE WITH SOD -- THE CONTRACTOR WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES STABILIZE THE HE APPLICANT PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE APPLICANT WILL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H:1V).

C. STABILIZE THE SLOPE WITH WOOD WASTE COMPOST -- THE CONTRACTOR WILL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE APPLICANT WILL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE. STABILIZE THE SLOPE WITH STONE RIPRAP -- THE CONTRACTOR WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS -- BY SEPTEMBER 15 THE CONTRACTOR WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL

FOR LATE FALL AND WINTER. A. STABILIZE THE SOIL WITH TEMPORARY VEGETATION -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE APPLICANT WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE APPLICANT WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM 3(C.) OF THIS STANDARD. STABILIZE THE SOIL WITH SOD -- THE APPLICANT WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE PPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. C. STABILIZE THE SOIL WITH MULCH -- BY NOVEMBER 15 THE APPLICANT WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER

200 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE APPLICANT WILL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

1. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, AND AT LEAST EVERY SEVEN (7) DAYS, THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES. THE CONTRACTOR SHALL PERFORM REPAIRS NO LATER THAN THE END OF THE NEXT WORKDAY, TO ALLOW CONTINUED PROPER FUNCTIONING OF THE EROSION CONTROL MEASURE. THE CONTRACTOR SHALL PROVIDE THE NECESSARY REGULATING AGENCIES WITH WRITTEN DOCUMENTATION DESCRIBING DATES OF INSPECTIONS AND NECESSARY FOLLOW-UP WORK TO MAINTAIN EROSION CONTROL MEASURES MEETING THE REQUIREMENTS OF THIS PLAN WITHIN SEVEN (7) DAYS.

2. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMIMONTHLY UNTIL THE SEEDINGS HAVE BEEN ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW-UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.

## HOUSEKEEPING:

1. SPILL PREVENTION. CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER. WHICH INCLUDES STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP, AND IMPLEMENT AS NECESSARY APPROPRIATE SPILL PREVENTION CONTAINMENT AND RESPONSE PLANNING MEASURES

2. GROUNDWATER PROTECTION. DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT THE ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION.

3. FUGITIVE SEDIMENT AND DUST. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEPT IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST

4. DEBRIS AND OTHER MATERIALS. MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE

5. EXCAVATION DE-WATERING. EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA. EITHER THROUGH GRAVITY OR PUMPING. MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.

AUTHORIZED NON-STORMWATER DISCHARGES. IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE: A. DISCHARGES FROM FIREFIGHTING ACTIVITY;

B. FIRE HYDRANT FLUSHINGS; 2. VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED): D. DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS;

. ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF

DETERGENTS ARE NOT USED: G. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;

H. UNCONTAMINATED GROUNDWATER OR SPRING WATER; FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;

UNCONTAMINATED EXCAVATION DEWATERING

. POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND LANDSCAPE IRRIGATION.

UNAUTHORIZED NON-STORMWATER DISCHARGES. THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES. SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING: A. WASTEWATER FROM THE WASHOUT OR CLEAN OUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS; B. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; SOAPS SOLVENTS OR DETERGENTS LISED IN VEHICLE AND FOUIPMENT WASHING AND

D TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE

# WINTER EROSION CONTROL MEASURES

# 1. SOIL STOCKPILES

RESOURCES. 2. NATURAL RESOURCES PROTECTION

RAINS

# 3. SEDIMENT BARRIERS

BALES AND SEDIMENT SILT FENCES. 4. MULCHING

ALL AREA SHALL BE CONSIDERED TO BE DENUDED UNTIL AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. PER 1.000 SQUARE FEET OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE OF 75-LBS./1.000 S.F. OR 1.5 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. THE SNOW WILL BE REMOVED DOWN TO A ONE-INCH DEPTH OR LESS PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERLY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1.000 SQUARE FEET (3TONS/ACRE) AND ADEQUATELY ANCHORED THAT GROUND SURFACE IS NOT VISIBLE THOUGH THE MULCH.

6. SEEDING

BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOOMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DORMANT SEEDING MAY BE SELECTED TO BE PLACED PRIOR TO THE PLACEMENT OF MULCH AND FABRIC NETTING ANCHORED WITH STAPLES. IF DORMANT SEEDING IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL RECEIVE 4' OF LOAM AND SEED AT AN APPLICATION RATE OF 5LBS/1000 S.F. ALL AREAS SEEDED DURING THE WINTER WILL BE INSPECTED IN THE SPRING FOR ADEQUATE CATCH. ALL AREAS SUFFICIENTLY VEGETATED (LESS THAN 75% CATCH) SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DORMANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING. SEED TYPE SHALL BE WINTER RYE.

7. INSPECTION AND MONITORING MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AT A MINIMUM, AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUOUS FUNCTION. FOLLOWING THE TEMPORARY AND OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL IN THE SPRING INSPECT AND REPAIR ANY DAMAGES AND/ OR UNESTABLISHED SPOTS. ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH.

DURING FLOW CONDITIONS.

REDUCING THE DITCH'S CROSS-SECTIONAL AREA

STABILIZE THE SOIL FOR LATE FALL AND WINTER.

THIS STANDARD

THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 75% MATURE VEGETATION COVER OR RIPRAP BY NOVEMBER 1 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS EXPECTED TO BE UNDER TAKEN DURING THE PROCEEDING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. ALL AREAS SHALL BE CONSIDERED TO BE DENUDED UNTIL THE SUBBASE GRAVEL IS INSTALLED IN ROADWAY AREAS OR THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH RATE SHALL BE A MINIMUM OF 150 LBS./1,000 S.F. (3 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR AT 150 LBS/1.000 S.F. (3) TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL, ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL MATS. DURING WINTER CONSTRUCTION, A DOUBLE LINE OF SEDIMENT BARRIERS (I.E. SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE. EXISTING PROJECTS NOT STABILIZED BY DECEMBER 1 SHALL BE PROTECTED WITH THE SECOND LINE OF SEDIMENT BARRIER TO ENSURE FUNCTIONALITY DURING THE SPRING THAW AND

DURING FROZEN CONDITIONS, SEDIMENT BARRIERS SHALL CONSIST OF WOOD WASTE FILTER BERMS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY

BETWEEN THE DATES OF SEPTEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER. WHEN GROUND SURFACE IS NOT VISIBLE THOUGH THE MULCH THEN COVER IS SUFFICIENT. AFTER NOVEMBER 1ST, MULCH AND ANCHORING OF ALL BARE SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORK DAY.

5. MULCHING ON SLOPES AND DITCHES

SLOPES SHALL NOT BE LEFT EXPOSED FOR ANY EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY MULCHED AND ANCHORED WITH PEG AND NETTING OR WITH EROSION CONTROL BLANKETS. MULCHING SHALL BE APPLIED AT A RATE OF 230 LBS/1,000 S.F. ON ALL SLOPES GREATER THAN 8%. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 5%. EROSION CONTROL BLANKETS SHALL BE USED IN LIEU OF MULCH IN ALL DRAINAGE WAYS WITH SLOPES 8%. EROSION CONTROL MIX CAN BE USED TO SUBSTITUTE EROSION CONTROL BLANKETS ON ALL SLOPES EXCEPT DITCHES.

STANDARDS FOR TIMELY STABILIZATION OF CONSTRUCTION SITES DURING WINTER

STANDARD FOR THE TIMELY STABILIZATION OF DITCHES AND CHANNELS -- THE APPLICANT WILL CONSTRUCT AND STABILIZE ALL STONE-LINED DITCHES AND CHANNELS ON THE SITE BY NOVEMBER 15. THE APPLICANT WILL CONSTRUCT AND STABILIZE ALL GRASS-LINED DITCHES AND CHANNELS ON THE SITE BY SEPTEMBER 15. IF THE APPLICANT FAILS TO STABILIZE A DITCH OR CHANNEL TO BE GRASS-LINED BY SEPTEMBER 15, THEN THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE DITCH FOR LATE FALL AND WINTER.

NSTALL A SOD LINING IN THE DITCH -- THE APPLICANT WILL LINE THE DITCH WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING THE SOD WITH JUTE OR PLASTIC MESH TO PREVENT THE SOD STRIPS FROM SLOUGHING

INSTALL A STONE LINING IN THE DITCH -- THE APPLICANT WILL LINE THE DITCH WITH STONE RIPRAP BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH. IF NECESSARY, THE APPLICANT WILL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO TO PREVENT THE STONE LINING FROM

2. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES -- THE APPLICANT WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE APPLICANT WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE DEPARTMENT WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (10H:1V) TO BE A SLOPE. IF THE APPLICANT FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS -- BY OCTOBER 1 THE APPLICANT WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE APPLICANT WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM III OF THIS CONDITION OR WITH STONE RIPRAP AS DESCRIBED IN ITEM IV OF THIS CONDITION.

STABILIZE THE SLOPE WITH SOD -- THE APPLICANT WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION NCLUDES THE APPLICANT PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE APPLICANT WILL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H:1V).

STABILIZE THE SLOPE WITH WOOD WASTE COMPOST -- THE APPLICANT WILL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE APPLICANT WILL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

STABILIZE THE SLOPE WITH STONE RIPRAP -- THE APPLICANT WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

3. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS -- BY SEPTEMBER 15 THE APPLICANT WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE APPLICANT FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL WITH TEMPORARY VEGETATION -- BY OCTOBER 1 THE APPLICANT WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3

POUNDS PER 1000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE APPLICANT WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE APPLICANT WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM III OF

STABILIZE THE SOIL WITH SOD -- THE APPLICANT WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION NCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. STABILIZE THE SOIL WITH MULCH -- BY NOVEMBER 15 THE APPLICANT WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 OUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE APPLICANT WILL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

Charle OF Marille		CRAIGA.	No 2638	E and Dury Co	CENSE CENSE	NUNCTION AL MAN	01/20/2023
	E CAB 01/24/2023 RESUBMISSION FOR TOWN REVIEW	D CAB 01/20/2023 RESUBMISSION FOR TOWN REVIEW	C CAB 01/18/2023 RESUBMISSION FOR TOWN REVIEW	B CAB 01/03/2023 RESUBMISSION FOR TOWN REVIEW	A CAB 11/16/2022 TOWN SUBMISSION	REV: BY: DATE: STATUS:	THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS. INC.



EROSION CONTROL NOTES	OF: SERVPRO - BUILDING EXPANSION 9 HUTCHERSON DRIVE	GORHAM, MAINE 04038 FOR: COAH BUILDING LLC 9 HUTCHERSON DRIVE GORHAM, MAINE 04038				
DES		JSH				
	RAWN	ABB				
СН		CAB				
		10/20/2022				
		10/20/2022				
5		N/A				
PRUJECT 10103						
[ _ ]						

SHEET 5 OF



#### -REMOVE ALL LABELS, TAGS OR OTHER FOREIGN MATERIAL FROM LIMBS

# -2"X2" STAKE IN LINE W/TRUNK (SEE NOTES) -PLASTIC CHAIN-LOCK OR GUY

WIRE W/HOSE APPROX. 4' ABOVE GROUND (SEE NOTES) -3" BARK MULCH

-EARTH SAUCER -FINISH GRADE

REMOVE ALL METAL OR **ROPE BINDINGS &** WRAP FROM TOP 1/3 OF ROOT BALL

2X THE DIAMETER OF - ROOT BALL WITH BACKFILL MIXTURE AS SPECIFIED

-2"x2"x4' WOOD STAKE -2"x2"x4' CROSS MEMBER

-(2) 2.5" DRYWALL SCREWS, TYP.

# LANDSCAPE NOTES

PLANT QUANTITIES SHOWN ON PLANS ARE FOR CONVENIENCE TO THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIAL INSTALLATION AS SHOWN ON PLANS.

- 2. SIZE AND GRADING STANDARDS OF PLANT MATERIALS SHALL CONFORM TO THE LATEST EDITION OF "U.S.A. STANDARD FOR NURSERY STOCK," BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- 3. ALL PLANT MATERIAL SHALL BE FREE FROM INSECTS AND DISEASE.
- 4. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING, STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE BY THE OWNER.
- PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BY THE CONTRACTOR AND A PERIOD OF TWO YEARS THEREAFTER BY THE OWNER FROM DATE OF INSTALLATION. DURING THE ONE YEAR GUARANTEE PERIOD, DEAD PLANT MATERIAL SHALL BE REPLACED AT NO COST TO THE OWNER. AT THE END OF THE ONE YEAR PERIOD, THE CONTRACTOR SHALL OBTAIN FINAL ACCEPTANCE FROM THE OWNER.
- ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
- 7. EXISTING TREES TO BE PRESERVED WILL BE PROTECTED DURING CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF THE UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC. DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER.
- 9. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" CLEAN SHREDDED DARK BROWN BARK MULCH.
- 10. THE CONTRACTOR SHALL PROVIDE 4" LOAM FOR ALL AREAS TO BE SODDED OR SEEDED. PLANTING AREAS SHALL RECEIVE 12" ROLLED THICKNESS OF LOAM. THE LANDSCAPE CONTRACTOR SHALL COORDINATE SUBGRADE PREPARATION WITH THE GENERAL CONTRACTOR PRIOR TO PLACING LOAM.
- 11. ANY DEVIATION FROM THE LANDSCAPE PLAN, INCLUDING PLANT LOCATION, SELECTION, SIZE, QUANTITY OR CONDITION SHALL BE REVIEWED AND APPROVED BY THE OWNER AND LANDSCAPE ARCHITECT (AND MUNICIPAL AUTHORITY, IF APPLICABLE) PRIOR TO INSTALLATION ON SITE.
- 12. WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR PERENNIAL AND ANNUAL FLOWER BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPHAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.
- 13. DURING CLEANING OF SITE AND PRIOR TO TREE AND SHRUB INSTALLATION, CONTRACTOR SHALL REMOVE INVASIVE PLANTS. AREAS WHERE INVASIVE PLANTS ARE REMOVED AND NOT OTHER PLANTING IS PROPOSED, AREA SHALL BE LOAMED AND SEEDED.

CHECK DAMS ARE INTENDED FOR THE SETTLEMENT OF SEDIMENTS AND FLOW VELOCITY REDUCTION. A DITCH LINING THAT IS ADAPTED TO THE SLOPE WILL BE NECESSARY FOR EROSION CONTROL (I.E. ONE ROW OF EROSION CONTROL BLANKET AT A MINIMUM).

- CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE.
- THE AREA AROUND EACH CHECK DAM SHOULD BE FREE OF DEBRIS.
  A STONE CHECK DAM SHOULD BE COMPRISED OF WELL-GRADED CRUSHED ROCK WITH A MAXIMUM SIZE OF 6 INCHES AND A MINIMUM STONE SIZE OF 2 INCHES. LARGER STONES MAY BE USED ON STEEP SLOPES. 5. THE MAXIMUM HEIGHT OF A STONE CHECK DAM SHOULD BE 2 FEET WITH A 6-INCH DEPRESSION AT ITS CENTER FOR OVERFLOW. THE EDGES OF THE
- DAM SHOULD BE KEYED INTO THE EMBANKMENTS TO PREVENT SIDE EROSION. 6. MECHANICAL PLACEMENT FOLLOWED BY HAND PLACEMENT WILL BE NECESSARY TO ACHIEVE A TIGHT MASS WITHIN THE CHANNEL AND TO
- ENSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES. ANY EROSION DOWNGRADIENT OR AROUND THE EDGES OF STONE CHECK
- DAMS SHOULD BE CORRECTED IMMEDIATELY. 8. TEMPORARY CHECK DAMS MAY BE REMOVED WHEN THE SWALE IS
- STABILIZED WITH WITH VEGETATION (90% COVERAGE).

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└─3"x3" GRID SHOWN FOR

REFERENCE ONLY

HANDICAP PAINT

NOT TO SCALE

-1-1/2" HOT BITUMINOUS SURFACE PAVING COURSE -2-1/2" HOT BITUMINOUS BASE PAVING COURSE



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DIAGONAL PAINT MARKINGS











