

- CONSTRUCTION SPECIFICATIONS:
1. STONE SIZE: ASPHALT PREGULATION # 4.3, SIZE NO. 2 (2.5" TO 1.5"). USE CRUSHED STONE.
 2. THICKNESS: NOT LESS THAN 6.0 INCHES.
 3. WIDTH: NOT LESS THAN FULL WIDTH OF ALL PORT OF INGRESS OR EGRESS.
 4. ONTO PUBLIC RIGHT-OF-WAY: WHEN SPRING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT POND OR SEDIMENT BASIN. ALL TRENCH SHALL BE PREVENTED FROM ENTERING MAIN STORM MAIN TRENCH OR INTERCONNECTOR.
 5. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT RAINING OR FORMING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH CRUSHED STONE. PERMANENT MEASURES USED TO TRAP SEDIMENT - ALL SEDIMENT SHOULD BE REMOVED IMMEDIATELY.

1 STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

EROSION AND SEDIMENTATION CONTROL PLAN

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROPOSED 2 STORY OFFICE BUILDING LOCATED AT 135 MARGINAL WAY IN PORTLAND. THIS PLAN IS BASED ON THE NAME EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION, BEST MANAGEMENT PRACTICES, MARCH, 1991.

A. PROPOSED DEVELOPMENT

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A 10842 S.F. OFFICE BUILDING WITH REQUIRED PARKING. THE PARCEL IS LOCATED AT 135 MARGINAL WAY IN PORTLAND. THE BUILDING AND PARKING LOT WITH THEIR ASSOCIATED GRADING DEFINE THE LIMITS OF PROPOSED EARTH MOVEMENT FOR THE DEVELOPMENT. THE HORIZONTAL AND VERTICAL PLACEMENT OF THE BUILDING AND PARKING LOT HAVE BEEN DESIGNED TO MAXIMIZE THE TOPOGRAPHIC OPPORTUNITIES AVAILABLE AND MEET LOCAL ORDINANCES.

B. EROSION CONTROL PRACTICES/TEMPORARY MEASURES

THE FOLLOWING TEMPORARY MEASURES TO CONTROL EROSION AND SEDIMENTATION SHALL BE UTILIZED:

1. EACH GROUND AREA OPENED OR EXPOSED, WHETHER DIRECTLY OR INDIRECTLY DUE TO THE DEVELOPMENT, SHALL BE MINIMIZED AND SHALL BE STABILIZED WITHIN 15 DAYS OF INITIAL DISTURBANCE OF SOIL, AND SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN DAYS OF FINAL GRADING. THIS STATEMENT APPLIES TO DISTURBED AREAS BEYOND THE LIMITS OF THE PROPOSED BUILDING. EXPOSED AREAS SHALL BE STABILIZED PRIOR TO A RAIN EVENT.

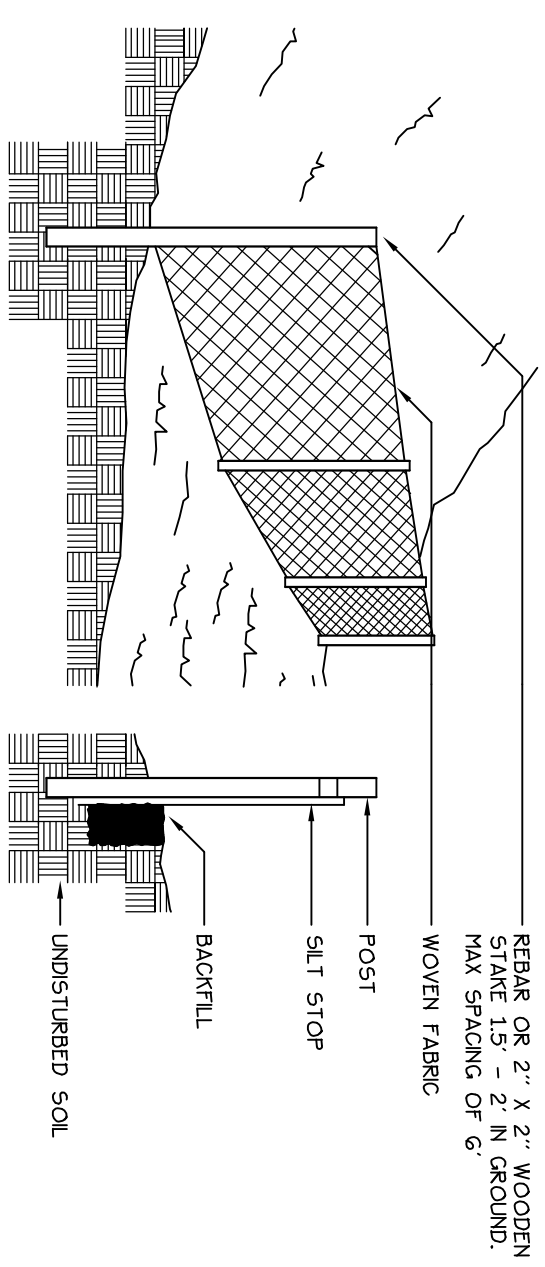
2. TEMPORARY SOIL STABILIZATION SHALL BE EITHER BY TEMPORARY MULCHING, TEMPORARY SEEDING, PERMANENT BASE GRAVEL, OR ASPHALT BINDER COURSE AS FOLLOWS:

TEMPORARY SEEDING: SEED SHALL BE AGRICULTURAL RYE APPLIED AT 2.6g#/1000 SF. LIME SHALL BE AGRICULTURAL GROUND LIMESTONE APPLIED AT 13.8g#/1000 SF. FERTILIZER SHALL BE 10-10-10 CLASSIFICATION APPLIED AT 13.8g#/1000 SF. MULCH SHALL CONSIST OF HAY OR STRAW MULCH APPLIED AND SPREAD AT A RATE OF 100 TO 150 LBS PER ACRE. MULCH SHALL BE APPLIED IN STRIPES MADE BETWEEN APRIL 15 AND OCTOBER 1, AND SHALL NOT BE PLACED OVER SNOW.

TEMPORARY MULCHING: MULCH SHALL CONSIST OF CHOPPED HAY OR STRAW MULCH AND SPREAD BY MECHANICAL BLOWER EVENTUALLY AT A RATE OF 150-200#/1000 SF. TEMPORARY MULCH SHALL BE REMOVED PRIOR TO PERMANENT SOIL STABILIZATION. MULCH MUST NOT BE PLACED OVER SNOW. SNOW SHALL BE REMOVED PRIOR TO MULCHING.

PERMANENT BASE GRAVEL: BASE GRAVEL UNDER PAVEMENT SHALL BE SUITABLE AS TEMPORARY SOIL STABILIZATION UNDER THE FOLLOWING CONDITIONS:

- a) GRAVEL SHALL BE LESS THAN EIGHT PERCENT.
- b) FOR THE PROPOSED COMPLETED PAVEMENT.
- c) ASPHALT BINDER COURSE, ASPHALT BINDER SHALL MEET THE SPECIFICATIONS FOR THE ASPHALT BINDER COURSE FOR THE PROPOSED COMPLETED PAVEMENT.



1. SILT FENCE TO BE INSTALLED PARALLEL TO EXISTING CONTOURS.
2. DOWN-SLOPE FROM AREAS OF SOIL DISTURBANCE.
3. SLOPE OF THE SLOPING STAKES ATTACHED TO THE UP-SLOPE.
4. SLOPE OF DOWN-SLOPE STAKES ATTACHED TO THE DOWN-SLOPE.
5. SLOPE OF DOWN-SLOPE STAKES ATTACHED TO THE DOWN-SLOPE.
6. INSPECTION SHALL BE MADE AFTER EVERY RAINFALL WITH REMOVAL OF EXCESSIVE SEDIMENT AND REPAIR OF HOLE.
7. SILT FENCE AND ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY AFTER EACH RAINFALL.
8. PERMANENT MEASURES USED TO TRAP SEDIMENT - ALL SEDIMENT SHOULD BE REMOVED IMMEDIATELY.

2 SILT FENCE

NOT TO SCALE

C. EROSION CONTROL PRACTICES/PERMANENT MEASURES

THE FOLLOWING PERMANENT MEASURES TO CONTROL EROSION AND SEDIMENTATION SHALL BE UTILIZED:

1. PERMANENT SEEDING SHALL BE PERFORMED DURING CONSTRUCTION OPERATIONS AS EACH DISTURBED AREA HAS BEEN BROUGHT TO FINISH GRADE.
2. PERMANENT SEEDING SHALL BE PERFORMED IMMEDIATELY AFTER THE FINAL GRADING OF ALL EXPOSED AREAS. SEEDING SHALL BE PERFORMED FOR BOTH LAWN AS WELL AS EMBANKMENTS. SEED: LOAM LIME, FERTILIZER AND MULCH ARE TO BE AS FOLLOWS:
3. SEED: THE SEED MIXTURE SHALL CONSIST OF SEED PROPORTIONED BY WEIGHT. ALL SEED SHALL BE FRESH, CLEAN, NEW CROP, SEED, HARDEST INERT MATTER AND WEED SEEDS SHALL BE PERMITTED UP TO ONE PERCENT OF THE GROSS WEIGHT OF EACH VARIETY OF SEED. ALL SEED SUPPLIED SHALL BE PACKED IN APPROVED CONTAINERS BEARING THE MANUFACTURER'S NAME AND ANALYSIS OF CONTENTS. THE FOLLOWING VARIETALS AND APPLICATION RATES SHALL BE REQUIRED FOR PERMANENT SEEDING:

- LAWN
- GREENING RED RESCUE: 0.6g#/1000 SF
 - PERENNIAL BULDOCKGRASS: 0.4g#/1000 SF
 - PERENNIAL RYEGRASS: 0.12g#/1000 SF
- TOTAL: 1.84g#/1000 SF

LOAM SHALL BE FREE OF GRASSES, ROOTS, LARGE STONE AND INORGANIC DEBRIS. PLACE LOAM AT SIX INCHES MINIMUM DEPTH OVER ALL DISTURBED AREAS. FINAL GRADING OF ALL LAWN AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT BEFORE SEEDING.

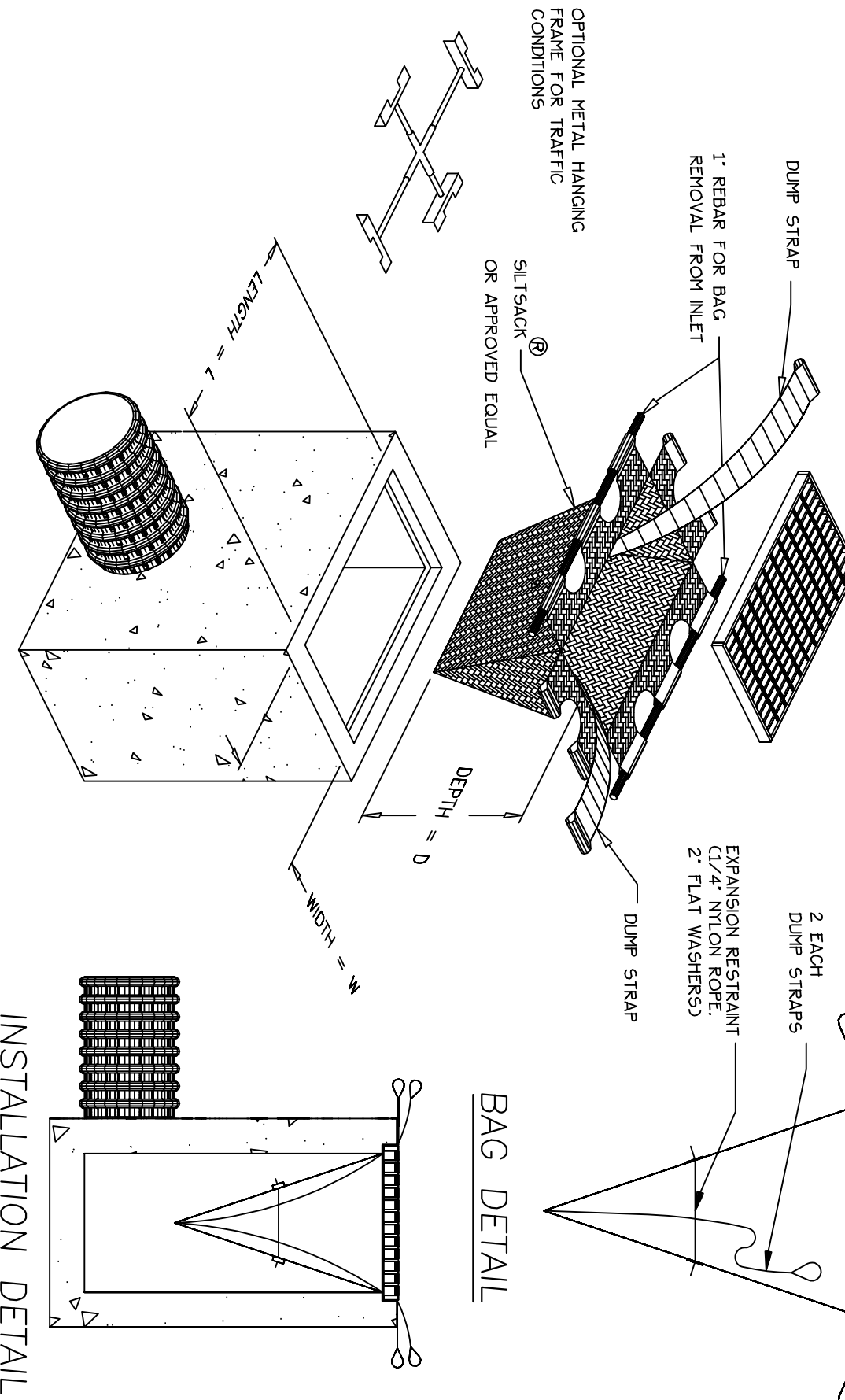
LIME: LIME SHALL BE AGRICULTURAL GROUND LIMESTONE AND APPLIED AS PER RECOMMENDATION OF A STATE COMMERCIAL SOIL TESTING LABORATORY.

FERTILIZER: FERTILIZER SHALL BE 10-20-20 CLASSIFICATION AND APPLIED AS PER RECOMMENDATION OF A STATE COMMERCIAL SOIL TESTING LABORATORY.

MULCH: MULCH SHALL CONSIST OF HAY OR STRAW MULCH. MULCH SHALL BE SPREAD EVENLY AT A RATE OF TWO AND ONE HALF TONS PER ACRE OVER ALL EXPOSED AREAS. MULCH SHALL BE APPLIED IN STRIPES MADE BETWEEN APRIL 15 AND OCTOBER 1, AND SHALL NOT BE PLACED OVER SNOW.

NOTE: ALL EXPOSED SOIL MUST BE COVERED RECORDABLES OF MULCHING RATES SPECIFIED. NOTE: AN EROSION CONTROL BLANKET SHALL BE PLACED IN ALL NEWLY CREATED OR DISTURBED DITCHES.

THE CONTRACTOR SHALL MAINTAIN THE SEEDED AND MULCHED AREAS UNTIL FINAL ACCEPTANCE OR THE WORK. MAINTENANCE SHALL CONSIST OF PROVIDING PROPER WATERING, PROTECTION AGAINST TRAFFIC AND REPAIRING ANY AREAS DAMAGED DUE TO WIND, WATER, EROSION, FIRE OR OTHER CAUSES. SUCH DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITION AND GRADE OF THE SOIL PRIOR TO SEEDING AND SHALL BE RE-FERTILIZED, RESEEDED AND RE-MULCHED.



3 INLET SEDIMENT CONTROL DEVICE

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D. CONSTRUCTION SEQUENCE

- THE GENERAL SEQUENCE OF WORK SHALL BE AS FOLLOWS:
1. INITIAL EROSION CONTROL DEVICES: SILT FENCE, STABILIZED CONSTRUCTION
 2. CLEAR SITE STUMP AND GRUB AND ROUGH GRADE SITE
 3. TEMPORARILY STABILIZE DISTURBED AREAS BY MULCHING ALL EXPOSED SOIL WITHIN 15 DAYS OF INITIAL DISTURBANCE.
 4. INSTALL STORMWATER SYSTEM.
 5. COMPLETE SITE CONSTRUCTION WORK
 6. CONSTRUCT PAVED ACCESS AND PARKING AREA
 7. INSTALL PERMANENT VEGETATION ON ALL EXPOSED AREAS WITHIN 15 DAYS OF FINAL GRADING.
 8. PERFORM CONTINUING MAINTENANCE ON ALL EROSION AND SEDIMENTATION CONTROL DEVICES AND MEASURES.

E. SITE INSPECTION & MAINTENANCE

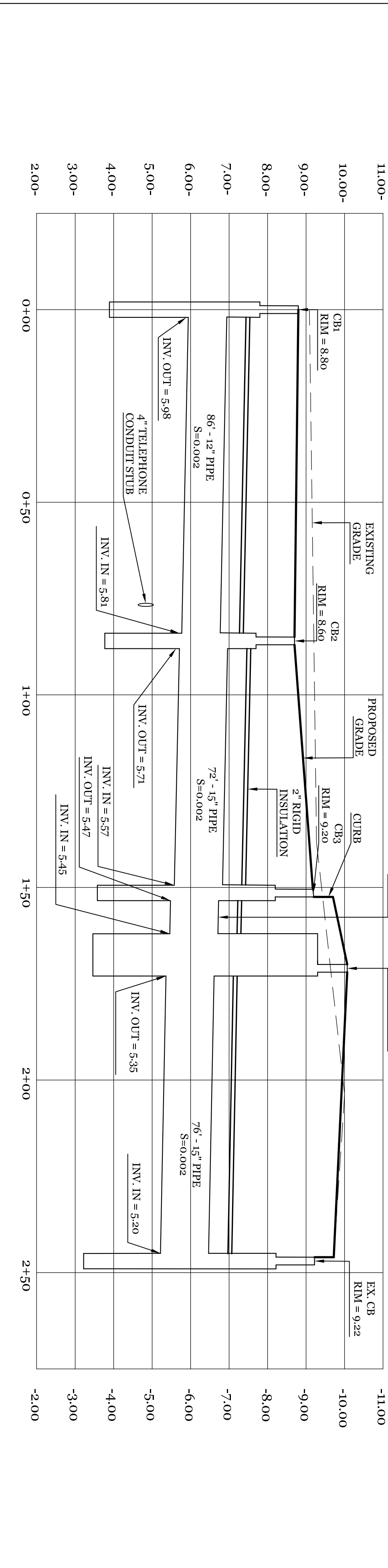
THE CONTRACTOR SHALL CONDUCT ROUTINE INSPECTIONS FOLLOWING RAINFALLS OF 1/2" OVER A CONSECUTIVE 24-HOUR PERIOD. SHALL BE CONDUCTED BY THE SITE CONTRACTOR OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES. UNTIL FINAL ACCEPTANCE OF THE PROJECT, NECESSARY REPAIRS SHALL BE MADE TO CORRECT UNDERMINING OR DETRIORATION. FINAL ACCEPTANCE SHALL INCLUDE A SITE INSPECTION TO VERIFY THE STABILITY OF ALL DISTURBED AREAS AND SLOPES. UNTIL FINAL INSPECTION, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL IMMEDIATELY BE CLEANED, AND REPAIRED BY THE SITE CONTRACTOR AFTER STORM EVENTS. DISPOSAL OF ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF ALL TEMPORARY EROSION CONTROL DEVICES. CONTINUED TEMPORARY MAINTENANCE AND LONG TERM PROVISIONS FOR PERMANENT MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES AFTER ACCEPTANCE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER COMPANY.

F. WINTER CONSTRUCTION

THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. 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. HAY AND STRAW MULCH RATE SHALL BE A MINIMUM OF 150 LBS./1000 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 DURING WINTER. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF ALL DISTURBED AREAS ON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUING MAINTENANCE SHALL BE REQUIRED ON THE AREA BEING WORKED HAS BEEN STABILIZED IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

PROFILE: STORM DRAIN

NOTE:
CUT TO BE LESS THAN OR EQUAL TO FILL.
(NO SOIL TO BE REMOVED FROM SITE).



SCALE: HORIZ. 1"=20' / VERT. 1"=2'

Prepared For:
Owner/Applicant:
FIVE LIVER COMPANY
5 Milk Street
Portland, Maine 04112
(207) 772-6044

Prepared By:
MITCHELL & ASSOCIATES
Landscape Architects
70 Camp Street
Portland, Maine 04101
Tel: (207) 774-4427

Portland, Maine

MULTI-TENANT OFFICE BUILDING

135 Marginal Way

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Title:
EROSION AND SEDIMENTATION CONTROL PLAN
STORM DRAIN PROFILE

Scale: AS SHOWN

Sheet No:

5