

**EROSION AND SEDIMENT CONTROL PLAN**

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER THE EXPANSION OF THE PARK DANFORTH AT TTT STEVENS AVENUE IN PORTLAND, MAINE. THIS PLAN IS BASED ON THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION, BEST MANAGEMENT PRACTICES, MARCH, 2003.

**A. PROPOSED DEVELOPMENT**

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A FIVE-STORY, 2,177 SQUARE FOOT BUILDING. THE BUILDING WILL INCLUDE 54 APARTMENT UNITS, A PARKING GARAGE, A GARAGE LEVEL MECHANICAL ROOM AND SERVICE CORE. THE 4.16-ACRE PARCEL CURRENTLY CONSISTS OF BUILDING AND A PARKING LOT; 71.4% OF THE EXISTING SITE IS IMPERVIOUS. THE PROPOSED IMPERVIOUS LOT IMPERVIOUS IS 3.05-ACRES OR 73.3% OF THE SITE.

**B. EROSION CONTROL PRACTICES/TEMPORARY MEASURES**

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

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.

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 AROOSTOOK RYE APPLIED AT 2.60#/1000 SF. LIME SHALL BE AGRICULTURAL GROUND LIMESTONE APPLIED AT 130#/1000 SF. FERTILIZER SHALL BE 10-10-10 CLASSIFICATION APPLIED AT 13.9#/1000 SF. MULCH SHALL CONSIST OF HAY AND STRAW MULCH AND SPREAD EVENLY AT A RATE OF 10-40#/1000 SF. TEMPORARY SEEDINGS SHALL ONLY BE 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 EVENLY 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) SLOPES SHALL BE LESS THAN EIGHT PERCENT;
- b) GRAVEL SHALL MEET THE SPECIFICATIONS FOR BASE OR SUBBASE GRAVEL FOR THE PROPOSED COMPLETED PAVEMENT.

**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. PERMANENT SEEDINGS SHALL BE MADE AS DORMANT SEEDING AFTER THE FIRST KILLING FROST. DORMANT SEEDING AND MULCH SHALL BE USED AT TWO TIMES THE PERMANENT SEEDING AND MULCHING RATE SHOWN BELOW FOR BOTH LAWN AS WELL AS EMBANKMENTS. SEED, LOAM, LIME, FERTILIZER AND MULCH ARE TO BE AS FOLLOWS:

**SEED:** THE SEED MIXTURE SHALL CONSIST OF SEED PROPORTIONED BY WEIGHT. ALL SEED SHALL BE FRESH, CLEAN, "NEW CROP" SEED. HARMLESS 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 MATERIALS AND APPLICATION RATES SHALL BE REQUIRED FOR PERMANENT SEEDING:

<b>LAWN:</b>	
GREENING RED RESCUE:	0.69#/1000 SF
KENTUCKY BLUEGRASS:	0.51#/1000 SF
PERENNIAL RYEGRASS:	0.46#/1000 SF
REDFOP:	0.12#/1000 SF
<b>TOTAL:</b>	1.84#/1000 SF

**LOAM:** SHALL BE FREE OF GRASSES, ROOTS, LARGE STONE AND INORGANIC DEBRIS. PLACE LOAM AT FOUR 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 SEEDING. AFTER APPLICATION, THE MULCH SHALL BE THOROUGHLY WETTED. IN STEEP AREAS, THE MULCH SHALL BE HELD IN PLACE BY THE USE OF JUTE EROSION CONTROL NETTING OR APPROVED ALTERNATIVE NETTING MATERIAL. NOTE: ALL EXPOSED SOIL MUST BE COVERED REGARDLESS OF MULCHING RATES SPECIFIED.

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 REESTABLISH THE CONDITION AND GRADE OF THE SOIL PRIOR TO SEEDING AND SHALL THEN BE REFERIALIZED, RESEEDED AND REMULCHED.

**D. WINTER CONDITIONS**

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 UNDERTAKEN 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 SF. (3 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. THE CONTRACTOR SHALL 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.

**E. CONSTRUCTION SEQUENCE**

THE GENERAL SEQUENCE OF WORK SHALL BE AS FOLLOWS:

1. INSTALL EROSION CONTROL DEVICES. (SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE AND OR SEDIMENT BARRIER.)
2. TEMPORARILY STABILIZE DISTURBED AREAS BY MULCHING ALL EXPOSED SOIL WITHIN 15 DAYS OF INITIAL DISTURBANCE.
3. INSTALL STORMWATER SYSTEM.
4. COMPLETE SITE CONSTRUCTION WORK.
5. CONSTRUCT PAVED ACCESS AND PARKING AREAS.
6. INSTALL PERMANENT VEGETATION ON ALL EXPOSED AREAS WITHIN 15 DAYS OF FINAL GRADING; AND
7. PERFORM CONTINUING MAINTENANCE ON ALL EROSION AND SEDIMENTATION CONTROL DEVICES AND MEASURES.

**F. SITE INSPECTION & MAINTENANCE**

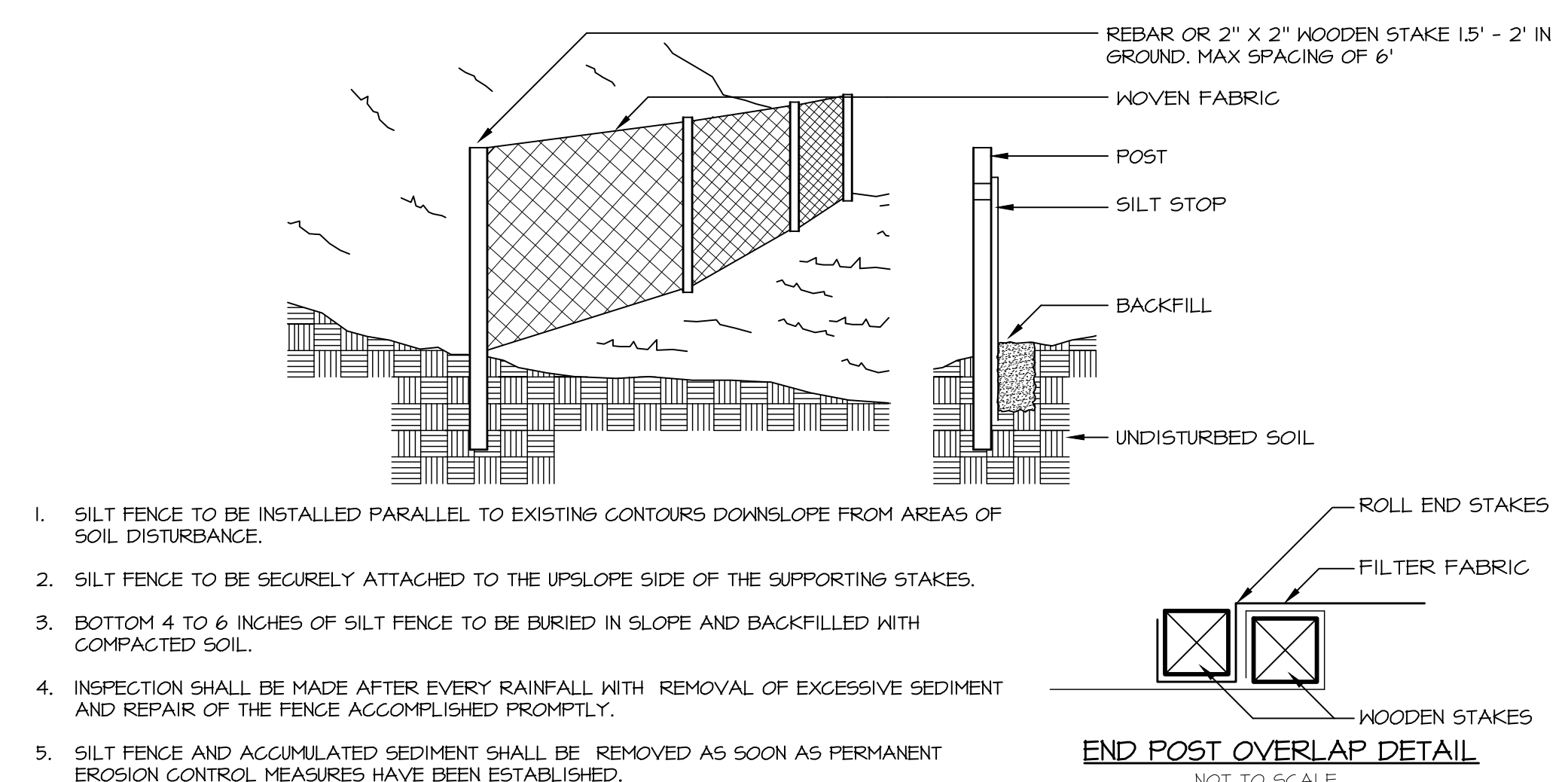
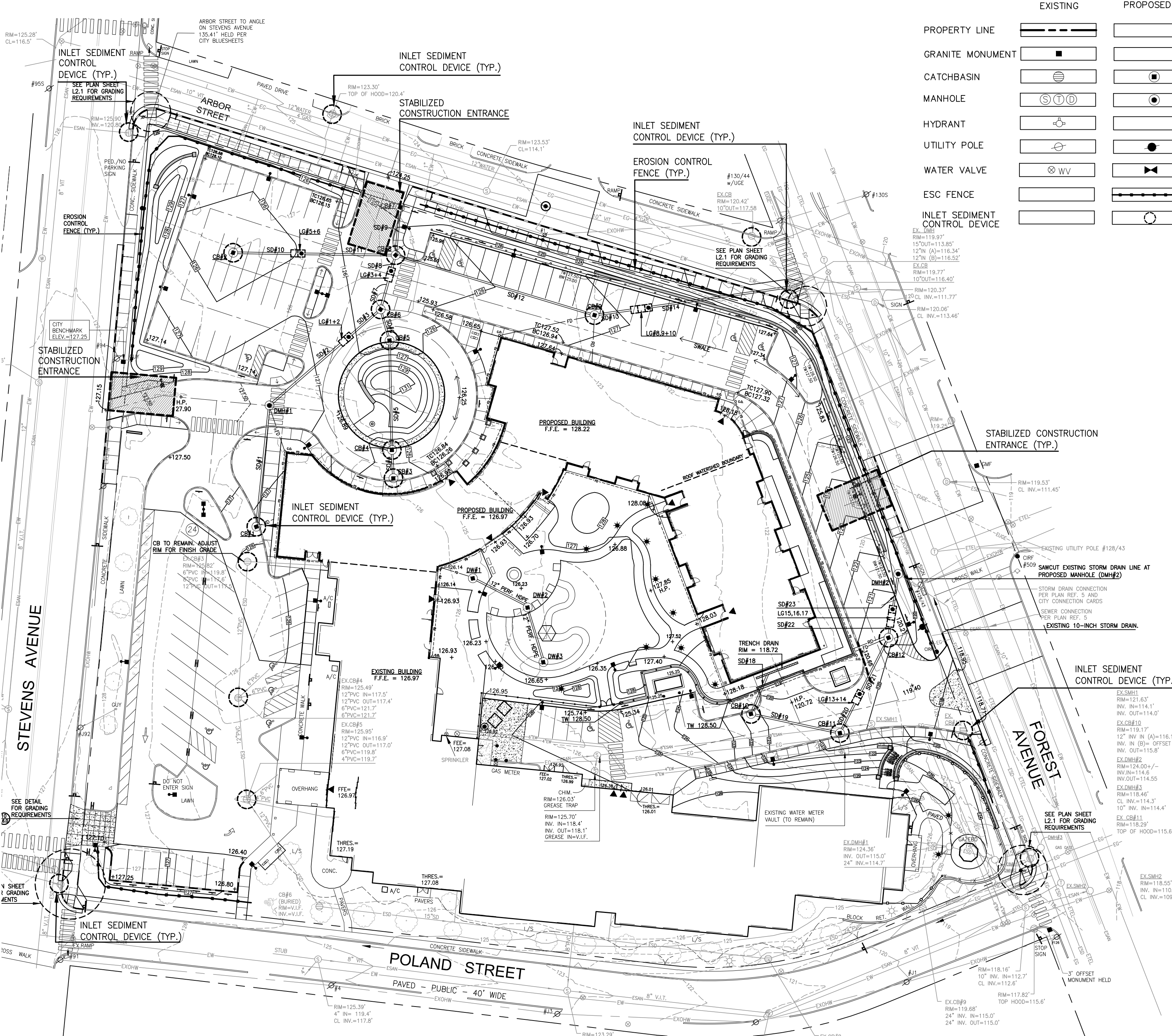
WEEKLY INSPECTIONS, AS WELL AS ROUTINE INSPECTIONS FOLLOWING RAINFALLS OF 0.5" OVER A CONSECUTIVE 24-HOUR PERIOD, SHALL BE CONDUCTED BY THE SITE CONTRACTOR OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES UNTIL FINAL ACCEPTANCE OF THE PROJECT. NECESSARY REPAIRS SHALL BE MADE TO CORRECT UNDERMINING OR DETERIORATION. 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 THE SITE CONTRACTOR.

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 PARK DANFORTH.

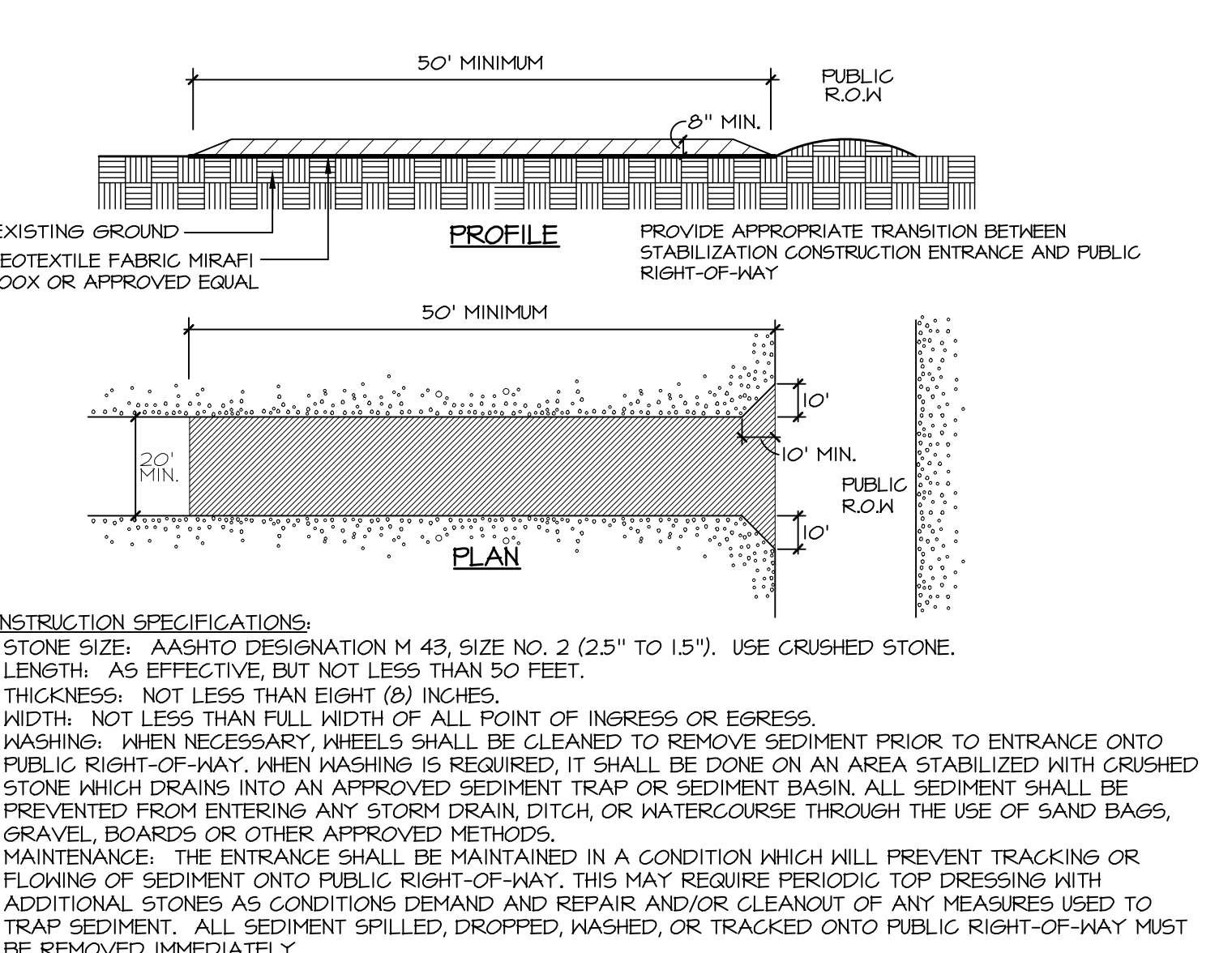
**LEGEND**

	EXISTING	PROPOSED
PROPERTY LINE		
GRANITE MONUMENT		
CATCHBASIN		
MANHOLE		
HYDRANT		
UTILITY POLE		
WATER VALVE		
ESC FENCE		
INLET SEDIMENT CONTROL DEVICE		

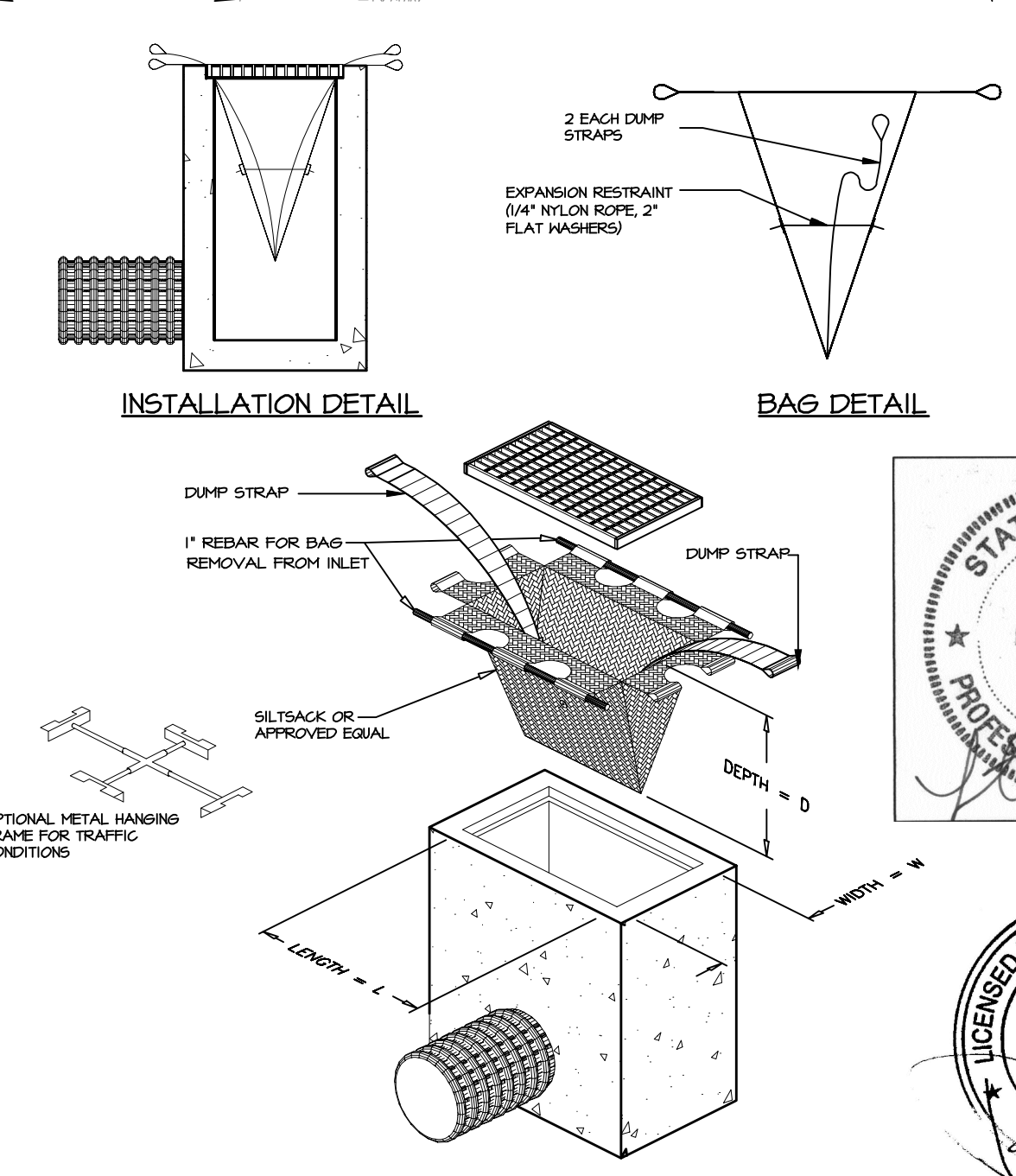
Prepared For:  
Owner:  
Home For The Aged  
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The Park Danforth  
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Prepared By:  
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**1 SILT FENCE**  
NOT TO SCALE



**2 STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**3 INLET SEDIMENT CONTROL DEVICE**  
NOT TO SCALE

**The Park Danforth**  
Portland, Maine  
777 Stevens Avenue

Date:  
OCTOBER 17, 2014  
Issued For:  
PERMITTING  
Revisions:  
NOV. 25, 2014: Per City of Portland Staff Review Comments  
JAN. 5, 2015: Per City of Portland Staff Review Comments  
MAR. 25, 2015: Site Pricing Set

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North:  
Sheet No.:  
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