

SOIL FILTER MEDIA NOTES

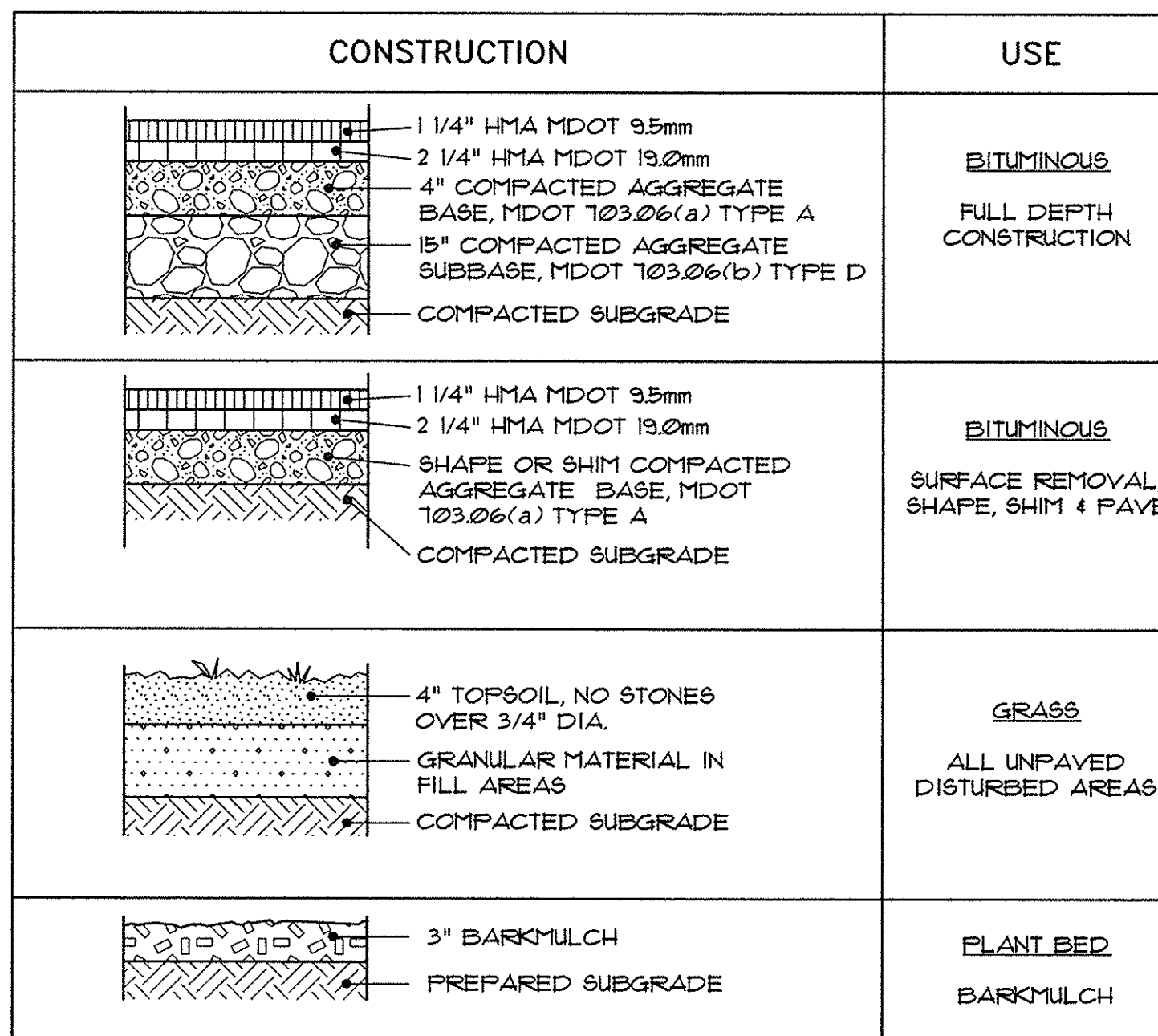
1. THE SOIL FILTER MUST BE AT LEAST 12 INCHES DEEP AND MUST EXTEND ACROSS THE BOTTOM OF THE ENTIRE FILTER AREA AND UP THE SIDES TO THE DEPTH OR ELEVATION SPECIFIED. THIS SOIL MIXTURE SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES, NO OTHER MATERIALS OR SUBSTANCES THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS CAN BE MIXED WITHIN THE FILTER. THE RESULTANT MIXTURE SHOULD HAVE MINIMAL CLAY CONTENT WITH NO LESS THAN 8% FINES PASSING THE #200 SIEVE. DURING CONSTRUCTION, CARE SHOULD BE TAKEN TO AVOID COMPACTION OF BOTH THE GRAVEL AND SOIL FILTER. COMPACTION SHOULD BE BY SATURATION ONLY, UNLESS SPECIAL LOW COMPACTION EQUIPMENT IS AVAILABLE.
2. CARE SHOULD BE TAKEN, ESPECIALLY IN AREAS WHERE THE PREDOMINANT SOIL AND OVERBURDEN CONTAINS MARINE CLAY, TO BE SURE THAT THE SAND AND TOPSOIL USED IN THE MIXTURE HAVE VERY LITTLE OR NO CLAY CONTENT. USE OF SOILS WITH MORE THAN 2% CLAY CONTENT COULD CAUSE FAILURE OF THE SYSTEM.
3. THE SOIL FILTER MEDIA MUST BE COMPOSED OF A THOROUGHLY BLENDED MIXTURE OF MATERIALS MEETING THE SPECIFICATIONS IN TABLE A. ADJUST THE PROPORTIONS BASED ON THE ORGANIC CONTENT AND AMOUNT OF FINES OF EACH COMPONENT. IF THE SAND IS VERY CLEAN OR THE MULCH IS RELATIVELY COARSE, USE MORE MULCH AND LESS SAND WHILE STAYING WITHIN THE ESTABLISHED RANGES. IF THE SAND IS SILTY OR THE MULCH LOAMY, USE MORE SAND AND LESS MULCH.

TABLE A SOIL FILTER MEDIA		
FILTER MEDIA	MIXTURE BY VOLUME	SPECIFICATION
SAND	70%-80%	MEDOT SPECIFICATION #103.01 FINE AGGREGATE FOR CONCRETE (SEE TABLE C)
MULCH	20%-30%	MODERATELY FINE, SHREDDED BARK OR WOOD FIBER MULCH WITH LESS THAN 8%-10% PASSING THE #200 SIEVE

UNDERDRAINED SOIL FILTER CONSTRUCTION NOTES

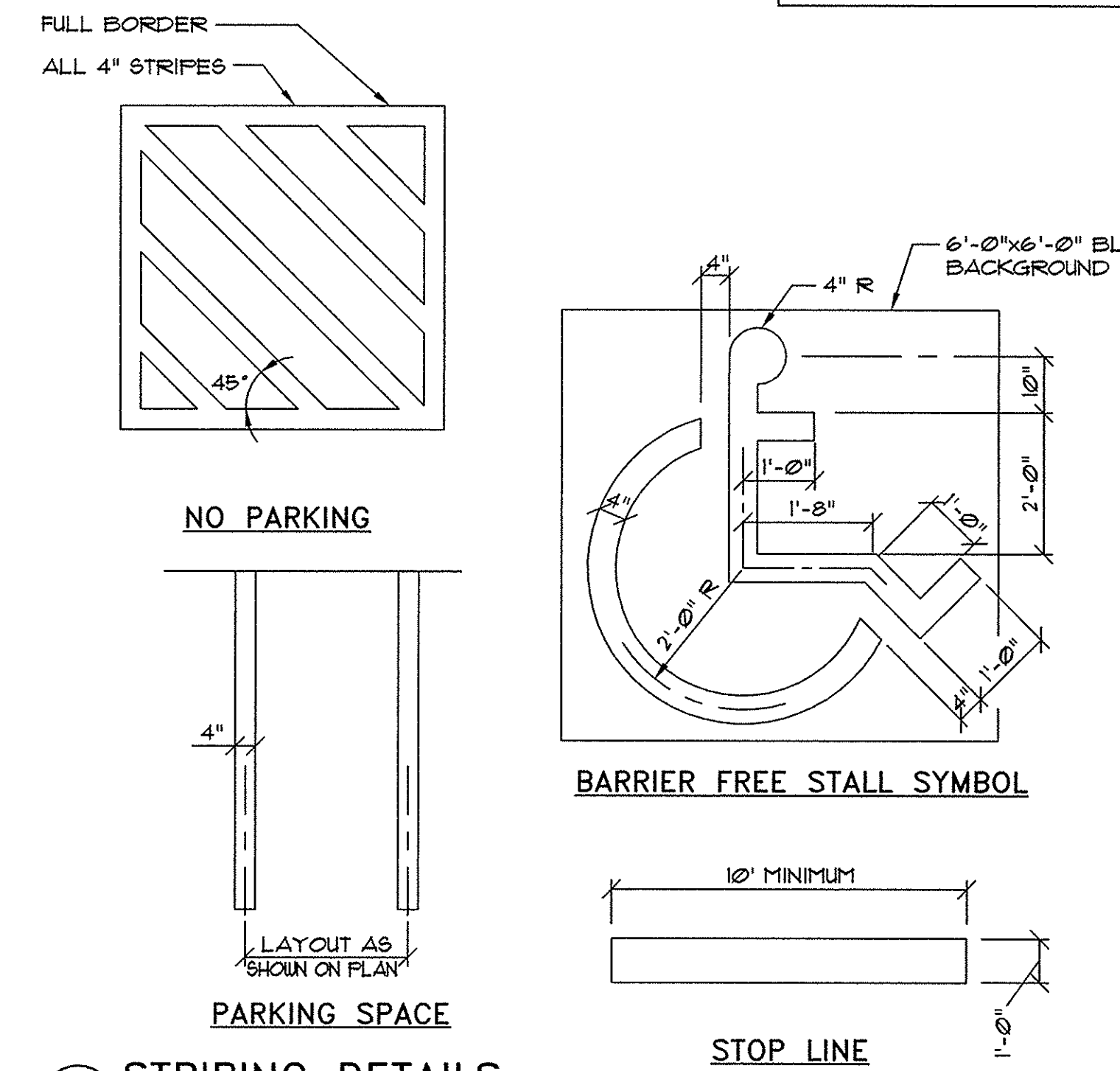
1. PRIOR TO CONSTRUCTION OF UNDERDRAINED SOIL FILTER STABILIZE AREAS THAT DRAIN TO THEM WITH EITHER TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN, NOTES & DETAILS.
2. DO NOT PLACE THE FILTER MEDIA UNTIL AFTER THE SOIL FILTER AREA IS USED FOR A SETTLING BASIN DURING CONSTRUCTION AND ALL AREAS THAT DRAIN TO THE BASIN HAVE BEEN STABILIZED. PRIOR TO PLACEMENT OF THE FILTER MEDIA ALL SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES MUST BE REMOVED.
3. EXCAVATE SOIL FILTER AND DITCH IN A MANNER THAT WILL NOT COMPACT THE SUBGRADE. DO NOT OPERATE HEAVY MACHINERY INSIDE THE SOIL FILTER.
4. THE TOP 6" OF SOIL FILTER MEDIA SHALL CONSIST OF LOAM TOPSOIL WITH 5-8% HUMIFIED ORGANIC MATTER. SCREENED TOPSOIL FROM THE DEVELOPMENT MAY BE APPROPRIATE BUT SHOULD BE TESTED FOR ORGANIC CONTENT. THE MEDIA SHOULD HAVE SUFFICIENT NUTRIENT CONTENT TO SUPPORT A GOOD STAND OF GRASS TYPE VEGETATION, OR ORGANIC MATTER (SUCH AS SUPERHUMUS OR EQUIVALENT) CAN BE ADDED IF NECESSARY AND PROVIDED THAT THE TEXTURE IS SUITABLE.
5. PLACE SOIL FILTER BED OVER THE PREPARED SURFACES WITH AN EXCAVATOR WORKING FROM OUTSIDE THE SWALE OR DITCH SO THAT WHEN SHAPED TO FINISH GRADE DEPTH IS AT LEAST 6 INCHES. DO NOT COMPACT.
6. SUBMIT SAMPLES OF THE SCREENED SOIL FILTER BED MATERIAL TO A SOIL TESTING LABORATORY FOR TESTING TO DETERMINE IF LIME AND FERTILIZER APPLICATION IS NECESSARY FOR THE TOPSOIL FILTER TO GROW GRASS.
7. APPLY LIMESTONE AND FERTILIZER OVER THE TOPSOIL FILTER ACCORDING TO THE SOIL TEST RECOMMENDATIONS USING LIGHT SPREADING EQUIPMENT. WORK LIME AND FERTILIZER INTO TOPSOIL FILTER TO A DEPTH OF 2 INCHES USING LIGHT EQUIPMENT.
8. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL OR HYDROSEEDER (USING A SLURRY INCLUDING SEED AND FERTILIZER).

SEED MIXTURE	LBS/ACRE	LBS/1000 SF
CREEPING RED FESCUE (FENNELAWN, ENSTLVA OR WINTERGREEN)	20	0.46
RED TOP	2	0.05
TALL FESCUE (KENTUCKY 31)	20	0.46
TOTAL	42	0.97
9. MAINTENANCE: GRASS SHOULD BE MOVED NO MORE THAN 2 TIMES PER GROWING SEASON TO MAINTAIN GRASS HEIGHTS LESS THAN 12 INCHES. REMOVE CLIPPINGS, REMOVE SEDIMENT BUILD-UP WHEN IT HAS ACCUMULATED TO APPROXIMATELY 25% OF CHANNEL CAPACITY.
10. IF BEDROCK IS ENCOUNTERED IN THE SOIL FILTER, OVER EXCAVATE AND REPLACE WITH ONE FOOT OF SOIL.



- NOTES:
1. HMA = HOT MIX ASPHALT.
MDOT = MAINE DEPARTMENT OF TRANSPORTATION.
 2. ALL COURSE THICKNESS AFTER FINAL COMPACTION.

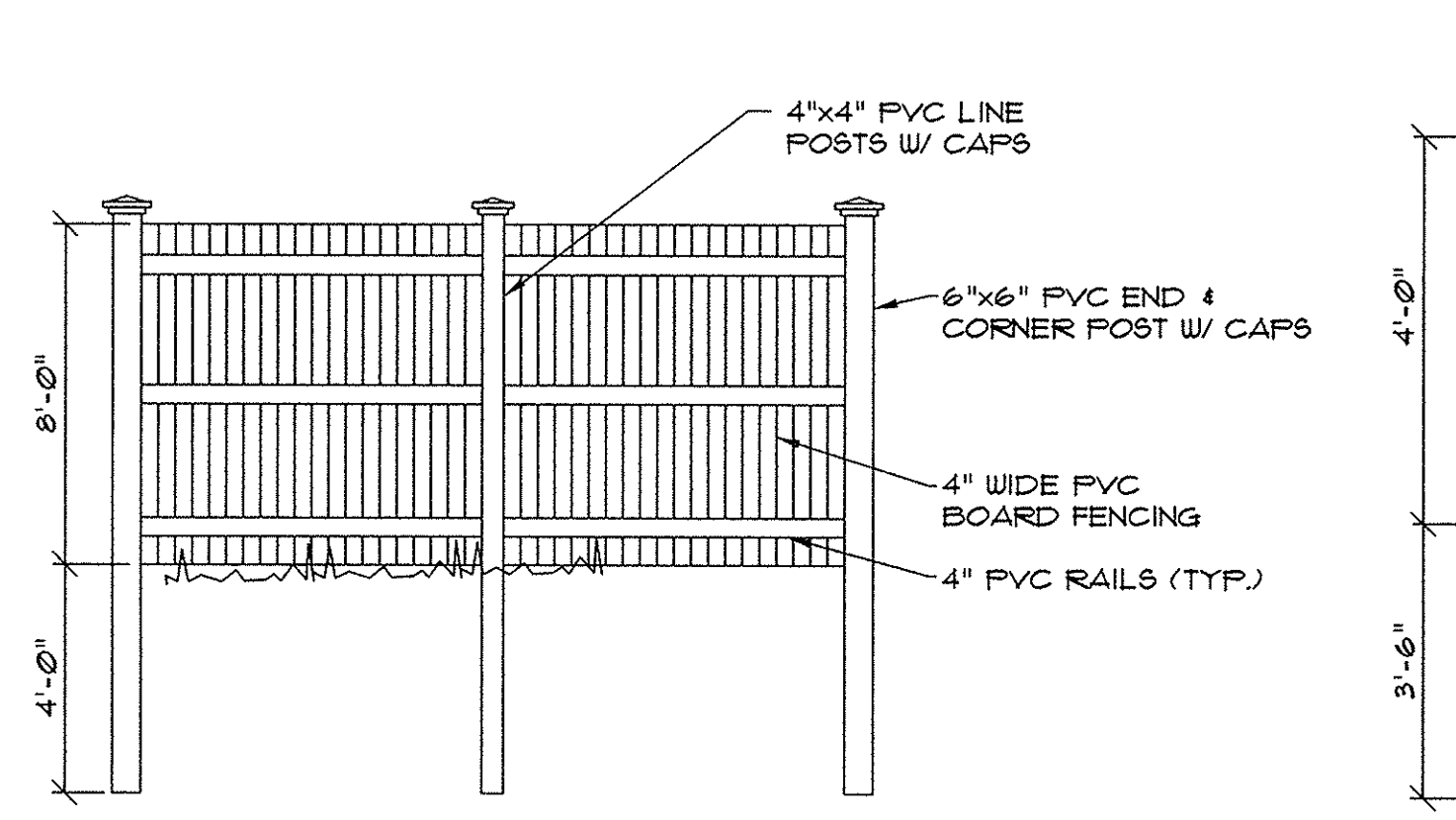
2 SCHEDULE OF SURFACE FINISHES



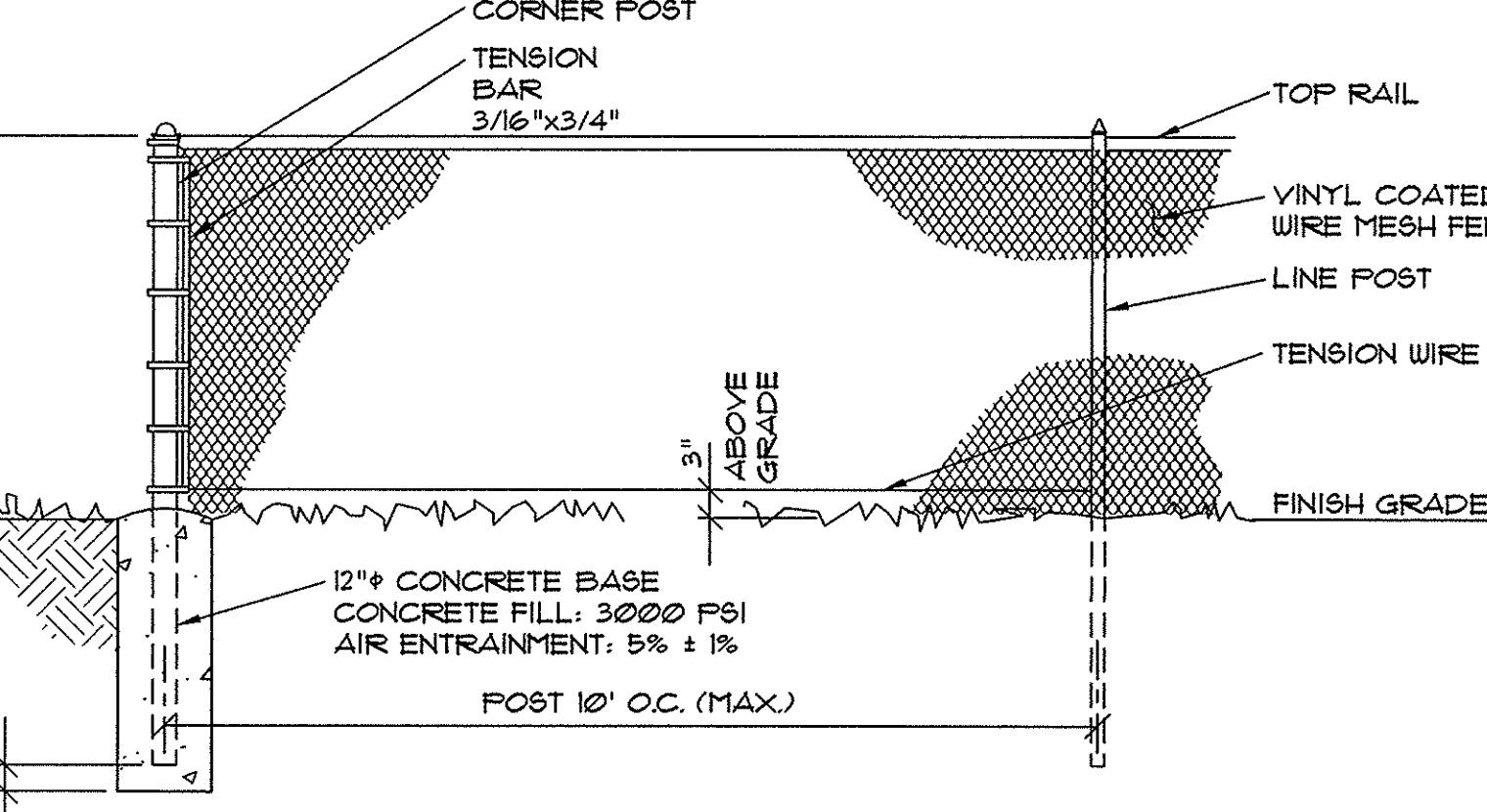
1 STRIPING DETAILS

NOT TO SCALE

NOT TO SCALE



4 STOCKADE PRIVACY FENCE DETAIL

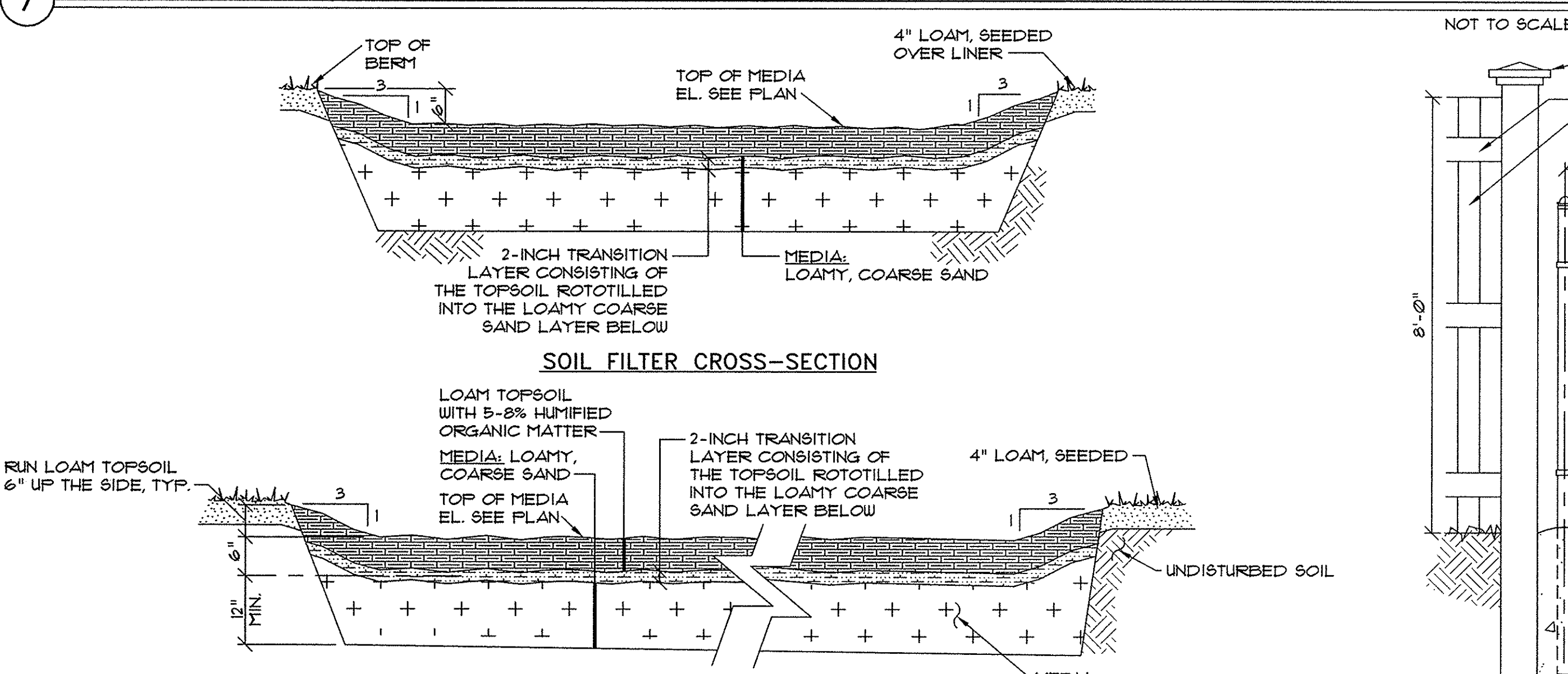


3 CHAINLINK FENCE DETAIL

NOT TO SCALE

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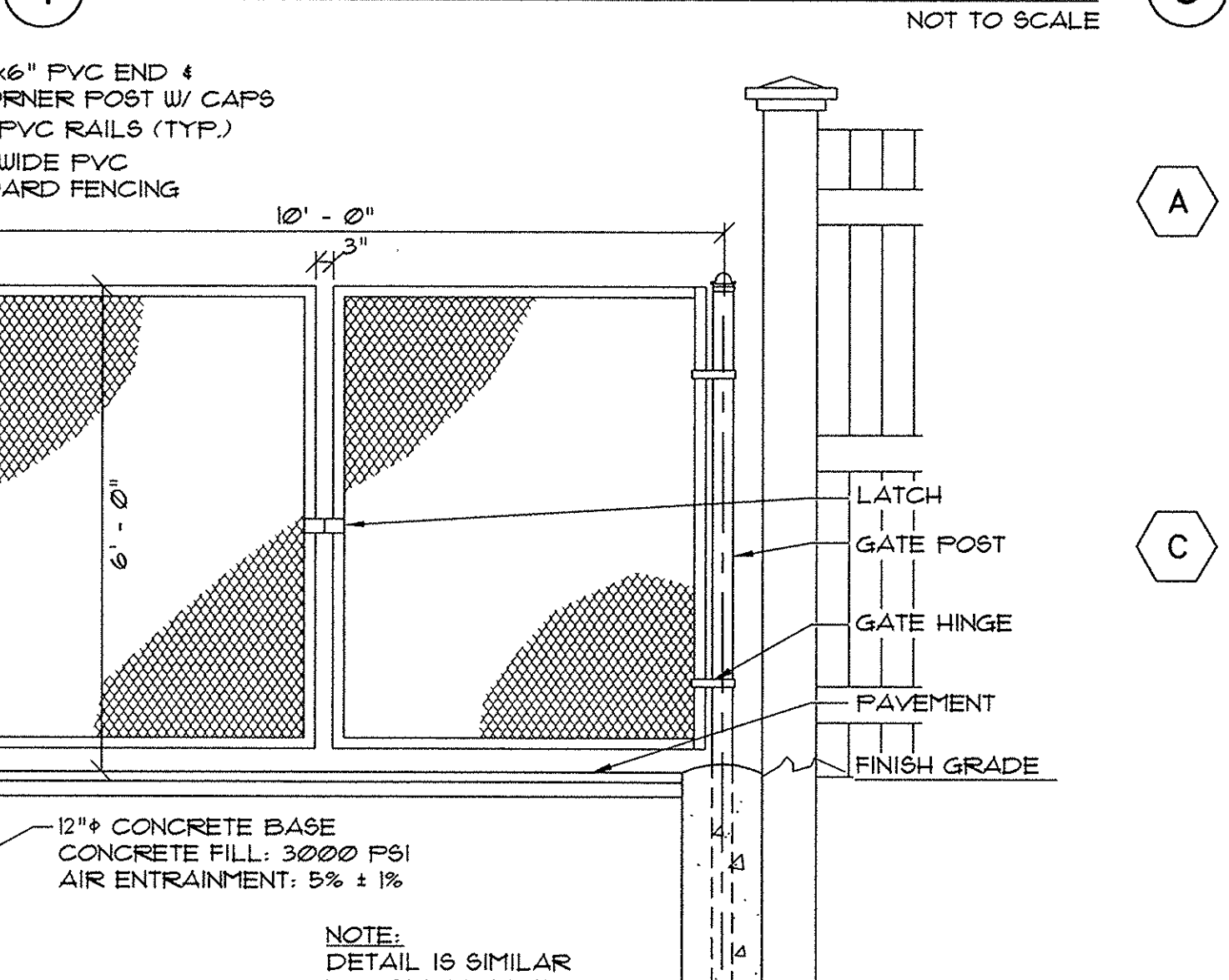
7 SOIL FILTER NOTES



8 SOIL FILTER SECTIONS

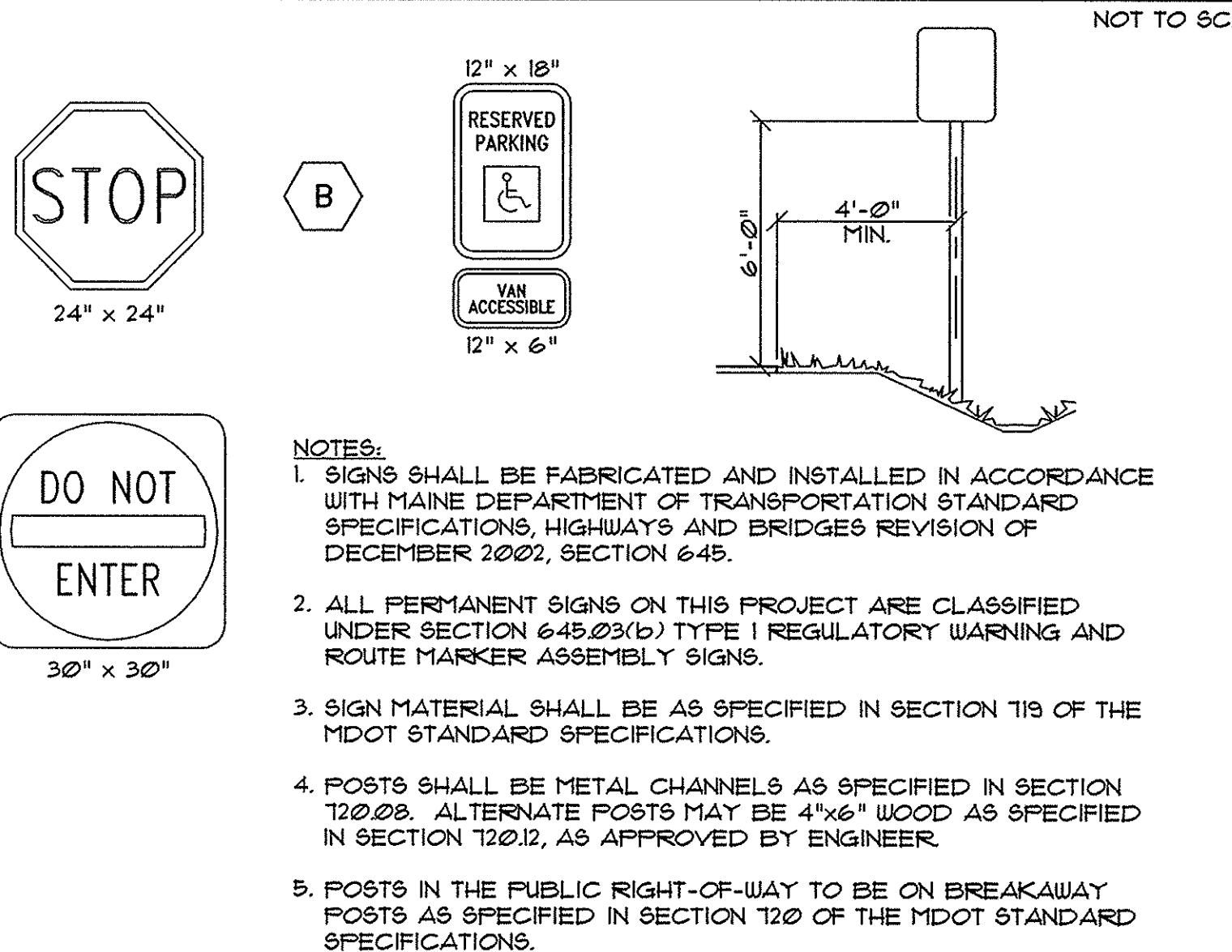
SOIL FILTER LONGITUDINAL SECTION

NOT TO SCALE



6 CHAINLINK FENCE DOUBLE LEAF GATE

NOT TO SCALE



5 ROAD SIGN LEGEND

NOT TO SCALE

NO.	DATE	DESCRIPTION
1	10/27/17	ADDED SOIL FILTER DETAILS & GATE DETAIL

APPLICANT / DEVELOPER:
DEVELOPER'S COLLABORATIVE
100 COMMERCIAL STREET, SUITE 414
PORTLAND, MAINE

SCALE: AS SHOWN
DATE: SEPTEMBER 5, 2017
PROJECT: 15154

DRN BY: JDC/JWG
DESIGN BY: TSG
CHK BY: [Signature]

REED SCHOOL REDEVELOPMENT
19 LIBBY STREET, PORTLAND, MAINE

SITE DETAILS

C2.1