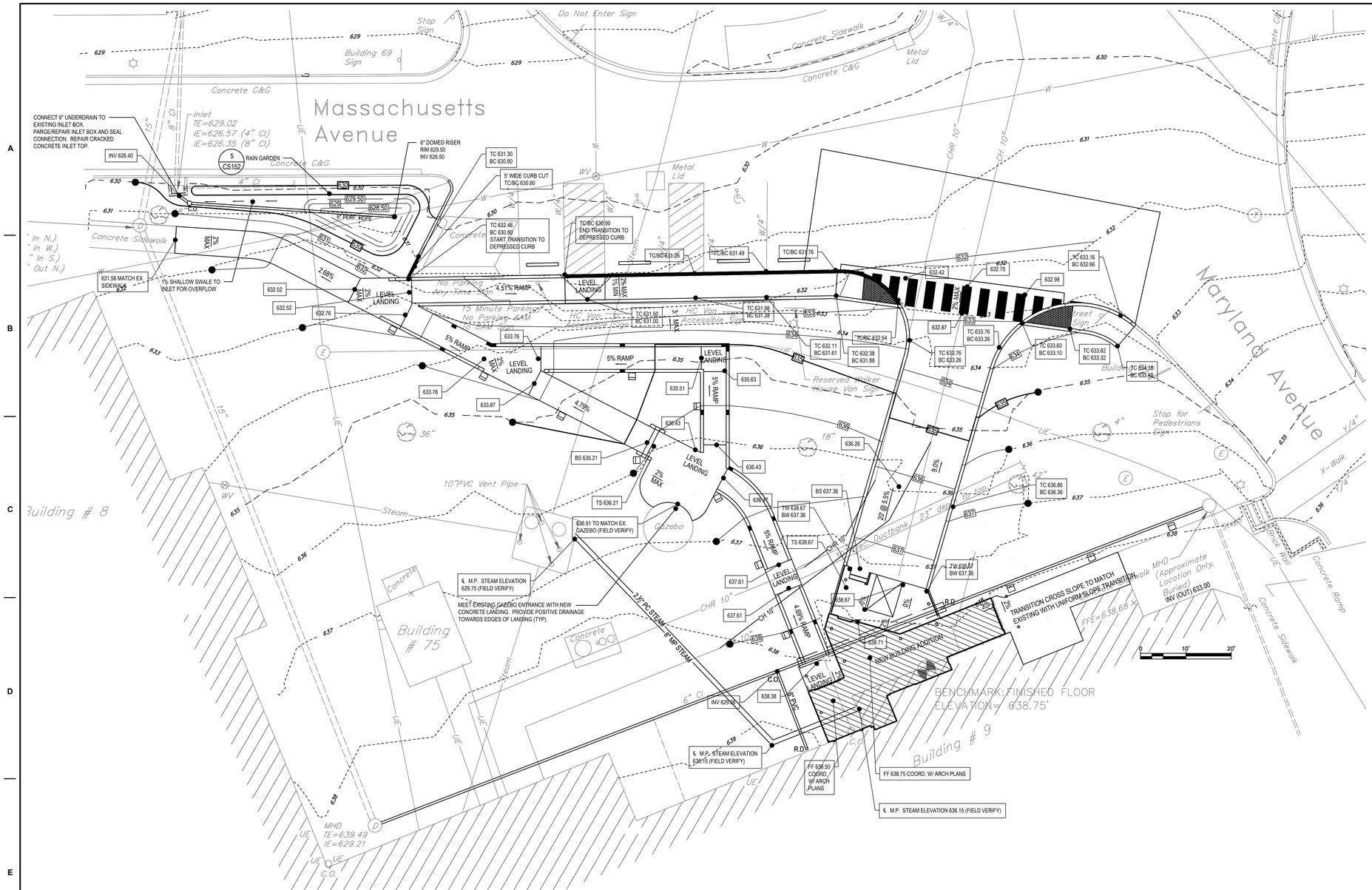

GRADING & DRAINAGE PLAN LEGEND

NOTE: REFER TO THE EXISTING FEATURES PLAN FOR THE EXISTING FEATURES LEGEND

X / XXXX	DETAIL NUMBER DRAWING / NUMBER WHERE DRAWN
X / XXXX	SECTION LETTER DRAWING / NUMBER WHERE DRAWN
505	EXISTING MAJOR CONTOURS (5-FT INTERVALS)
504	EXISTING MINOR CONTOURS (1-FT INTERVALS)
505	PROPOSED MAJOR CONTOURS (5-FT INTERVALS)
504	PROPOSED MINOR CONTOURS (1-FT INTERVALS)
500.00	PROPOSED SPOT ELEVATION
HP 500.33	PROPOSED SPOT ELEVATION AT HIGH POINT
TC 500.91 BC 500.41	PROPOSED SPOT ELEVATIONS AT TOP AND BOTTOM OF CURB
TW 500.91 BW500.41	PROPOSED SPOT ELEVATIONS AT TOP AND BOTTOM OF WALL
DI 498.97	PROPOSED SPOT ELEVATIONS AT DRAIN INLETS
TS 501.04	PROPOSED SPOT ELEVATIONS AT TOP OF STEPS
BS 500.54	PROPOSED SPOT ELEVATIONS AT BOTTOM OF STEPS
2.0%	PROPOSED SLOPE

GRADING & DRAINAGE PLAN NOTES

1. THE EXACT LOCATION AND DEPTH OF EXISTING UTILITIES MUST BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF PROPOSED IMPROVEMENTS.
2. PROVIDE TRANSITION FROM 6" CURB HEIGHT TO FLUSH CONDITION IN A 6'-0" HORIZONTAL LENGTH UNLESS OTHERWISE SHOWN ON THE PLANS.
3. SEE LIGHTING PLAN FOR LOCATIONS OF PROPOSED PEDESTRIAN LIGHTING AND RELATED ELECTRIC UTILITY SERVICE.

POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION AND MAINTENANCE

1. STRUCTURES AND PIPES
   - 1.1. AT A MINIMUM, STRUCTURES AND PIPES SHALL BE INSPECTED IN THE SPRING, IN THE FALL AND AFTER EACH SIGNIFICANT RAINFALL EVENT.
   - 1.2. CLEAN DEBRIS FROM STRUCTURES AND PIPES AS NEEDED TO ENSURE PROPER DRAINAGE OF RUNOFF.
   - 1.3. DISPOSE OF DEBRIS IN AN APPROVED AREA.
2. RAIN GARDEN
   - 2.1. INSPECT ANNUALLY AND WITHIN 48 HOURS OF EVERY MAJOR STORM EVENT (>1 INCH RAINFALL DEPTH).
   - 2.2. MOW AND TRIM VEGETATION ONLY WHEN NECESSARY TO ENSURE SAFETY, AESTHETICS, PROPER BASIN OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION. DISPOSE OF CUTTINGS IN A LOCAL COMPOSTING FACILITY; MOW ONLY WHEN BASIN IS DRY TO AVOID RUTTING.
   - 2.3. PLANT ALTERNATIVE SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT.
   - 2.4. RESEED BARE AREAS; INSTALL APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION CHANNELS ARE FORMING.
   - 2.5. INSPECT AND CORRECT INFLOW POINT AND OVERFLOW SWALE WHEN SIGNS OF ALTERED FLOW (CHANNELIZATION, OBSTRUCTIONS, EROSION, ETC.) ARE IDENTIFIED.
   - 2.6. WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY.
3. EROSION REPAIR AND SUPPLEMENTAL CONTROLS (EXCLUDING VEGETATED SWALES)
   - 3.1. AT NO TIME WILL SEDIMENT BE ALLOWED TO LEAVE THE SITE AND ENTER THE WATERS OF THE COMMONWEALTH.
   - 3.2. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR EROSION AND/OR SEDIMENT POLLUTION. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, RE-GRADING, RE-SEEDING AND RE-STABILIZATION SHALL BE PERFORMED IMMEDIATELY.
   - 3.3. PERMANENT SEEDING:
     - 3.3.1. PROVIDE PENNDOT FORMULA B SEED MIXTURE CONSISTING OF THE FOLLOWING:
       - 3.3.1.1.1. SPECIES: PERENNIAL RYEGRASS/ CREEPING RED FESCUE/ KENTUCKY BLUEGRASS MIXTURE
         - % PURE LIVE SEED: 98%, 98% 98%
         - APPLICATION RATE: 20-30-50 LB./ACRE
         - FERTILIZER TYPE: 10-20-20
         - FERTILIZER APPLICATION RATE: 1000 T/ACRE
         - LIMING RATE: 6 T./ACRE
         - MULCH TYPE: CLEAN WHEAT OR OAT STRAW
         - MULCHING RATE: 3 T./ACRE
         - ANCHOR MATERIAL: NONE
         - ANCHORING METHOD: NONE
         - RATE OF ANCHOR MATERIAL APPLICATION: NONE
       - 3.3.1.1.2. SEEDING SEASON DATES: MAR 1 TO MAY 30 AND SEPT 1 TO OCT 15
   - 3.4. INSPECT SEEDED AREAS WEEKLY AND AFTER EACH RAINFALL EVENT, ERODED AREAS ARE TO HAVE TOPSOIL REPLACED, SEED RE-SOWN AND MULCH RE-APPLIED.
   - 3.5. EROSION CONTROL BLANKET
     - 3.5.1. REPLACE EROSION CONTROL BLANKET PER THE MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER SEEDING.

1 GRADING & DRAINAGE PLAN

FULLY SPRINKLERED
BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER M. PACE — AUGUST 29, 2014

Drawing Title	GRADING, DRAINAGE & PCSWM PLAN
Approved: Project Director	
Project Title	BUILDING 9 - SECOND FLOOR RENOVATION
Location	1400 Blackhorse Hill Road Coatesville, PA 19320
Date	05/12/14
Checked	RB
Drawn	CMP
Project Number	542-13-105
Building Number	9
Drawing Number	CG111
Dwg.	16 of 125

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