Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/02/15

EROSION & SEDIMENTATION CONTROL NOTES

1) THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING THE EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES", DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED MARCH 2003 (DEPLW 588). ADDITIONAL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY DURING ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES OR STATE/LOCAL/FEDERAL INSPECTORS AT NO ADDITIONAL COST TO THE OWNER.

2) THE FOLLOWING GENERAL CONDITIONS SHALL BE FOLLOWED:
- SEDIMENT BARRIERS (e.g., SILT FENCE) SHALL BE INSTALLED PRIOR TO BEGINNING SOIL DISTURBANCE ACTIVITIES (e.g. GRUBBING, GRADING) AT THE PERIMETER OF THE PROPERTY. SEDIMENT BARRIERS WILL BE MAINTAINED UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
- EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS WILL BE STABILIZED WITH MULCH OR OTHER NON-ERODIBLE COVER.
- EROSION AND SEDIMENT CONTROL FEATURES WILL BE INSPECTED AND REPAIRED WEEKLY AND BEFORE AND AFTER EVERY STORM EVENT.
- APPROPRIATE EROSION AND SEDIMENTATION CONTROL WILL BE PROVIDED FOR ALL SOIL STOCKPILE AREAS, AS INDICATED ON THE EROSION CONTROL PLAN.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

3) TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE IN-PLACE PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND WILL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PROJECT.

4) EXPOSED SOIL AREAS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS WILL BE MULCHED. MULCH SHALL CONSIST OF HAY OR STRAW THAT IS AIR DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS. MULCH WILL BE APPLIED AT 2 BALES (70-90 POUNDS) PER 1,000 SQUARE FEET TO COVER 75-90% OF THE GROUND SURFACE. MULCH WILL BE KEPT MOIST OR ANCHORED IN-PLACE TO PREVENT WIND DISTURBANCE. EROSION CONTROL MIX AND CHEMICAL MULCHES WITH BINDER CAN BE USED ON SITE IF APPLIED IN ACCORDANCE WITH MDEP's BMP's.

5) TEMPORARY VEGETATION WILL BE USED IN AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR LESS. PREPARATION OF THE SEEDBED WILL BE NECESSARY TO ENSURE SUFFICIENT VEGETATIVE GROWTH. SOIL TESTS ARE RECOMMENDED TO DETERMINE THE APPROPRIATE APPLICATION RATE OF LIME AND FERTILIZER. IF SOIL TESTING IS NOT FEASIBLE, THEN FERTILIZER WILL BE APPLIED AT A RATE OF 15 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 (N-P2O5-K2O) OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 150 POUNDS PER 1,000 SQUARE FEET.

TEMPORARY GROUND STABILIZATIONS		
SEED	lbs. PER 1,000 sq. ft.	RECOMMENDED SEEDING DATES
WINTER RYE	2.5	AUGUST 30 - OCTOBER 1
OATS	2.0	APRIL 1 - JULY 1, AUG. 30 - SEPT. 30
ANNUAL RYEGRASS	1.0	APRIL 1 - JUNE 1
SUDANGRASS	1.0	MAY 15 - AUGUST 30
PERENNIAL	1.0	AUGUST 30 - SEPTEMBER 30

NOTE: MULCH SHALL BE APPLIED AT THE RATES PREVIOUSLY SPECIFIED FOLLOWING THE SEED APPLICATION.

6) AREAS THAT WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAVE BEEN FINAL GRADED WILL BE PERMANENTLY STABILIZED WITHIN 7 DAYS. PERMANENT STABILIZATION AT THIS SITE WILL INCLUDE ROAD SUB-BASE/PAVEMENT, PERMANENT SEEDING AND PERMANENT LANDSCAPING. PERMANENT SEEDING WILL BE PERFORMED UPON COMPLETION OF CONSTRUCTION ACTIVITIES. PERMANENT SEED MIX SHALL CONSIST OF THE FOLLOWING

PERMANENT SEED MIX	
SEED MIXTURE	lbs. PER 1,000 sq. ft.
KENTUCKY BLUEGRASS	0.5
CREEPING RED FESCUE	0.5
PERENNIAL RYEGRASS	0.1

4" OF LOAM (MINIMUM) SHALL BE SPREAD OVER THE DISTURBED AREA AND SMOOTHED TO A UNIFORM SURFACE. SOIL

7) TESTS ARE RECOMMENDED TO DETERMINE THE APPROPRIATE APPLICATION RATE OF LIME AND FERTILIZER. IF SOIL TESTING IS NOT FEASIBLE, THEN FERTILIZER CAN BE APPLIED AT A RATE OF 15 POUNDS PER 1,000 SQUARE FEET OF 10-20-20 (N-P2O5-K2O) OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 150 POUNDS PER 1,000 SQUARE FEET. BOTH THE LIME AND FERTILIZER SHOULD BE WORKED INTO THE GROUND TO A DEPTH OF 4" AS PRACTICAL. THE SEEDBED SHOULD BE SUBSEQUENTLY ROLLED TO FIRM PRIOR TO SEEDING. MULCH WILL BE APPLIED AT 2 BALES (70-90 POUNDS) PER 1,000 SQUARE FEET TO COVER 75-90% OF THE GROUND SURFACE. MULCH WILL BE KEPT MOIST OR ANCHORED IN PLACE TO PREVENT WIND DISTURBANCE. EROSION CONTROL MIX AND CHEMICAL MULCHES WITH BINDER CAN BE ALSO USED ON SITE IF APPLIED IN ACCORDANCE WITH MDEP's BMPs.

8) IN THE EVENT THAT CONSTRUCTION OCCURS AFTER 45 DAYS PRIOR TO THE FIRST KILLING FROST (OCTOBER 15th), DORMANT SEEDING WILL BE PERFORMED. THE PERMANENT SEED MIXTURE DESCRIBED ABOVE WOULD BE DOUBLED.

9) DUST CONTROL METHODS WILL BE EMPLOYED ON-SITE TO PREVENT MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES THAT COULD POTENTIALLY CREATE HAZARDS TO WILDLIFE, HUMANS OR PLANT LIFE, BOTH ON SITE AND OFFSITE. DUST GENERATED BY ACTIVITIES AT THE SITE, INCLUDING DUST ASSOCIATED WITH TRAFFIC TO AND FROM THE SITE, WILL BE CONTROLLED BY SWEEPING, PAVING, WATERING OR OTHER BEST MANAGEMENT PRACTICES FOR CONTROL OF FUGITIVE EMISSIONS.

10) THE CONTRACTOR SHALL INSPECT EROSION & SEDIMENT CONTROL MEASURES WEEKLY, BEFORE AND AFTER RAINFALLS, AND PRIOR TO COMPLETING STABILIZATION THROUGHOUT THE DURATION OF THE PROJECT INCLUDING WEEKENDS AND HOLIDAYS. ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED AS STIPULATED IN THE BASIC AND GENERAL STANDARDS SUBMISSION IN THE STORMWATER APPLICATION SUBMITTED TO THE MAINE DEP (SEE NOTE 1 ABOVE). A STANDARD INSPECTION FORM IS INCLUDED IN THE STORMWATER APPLICATION, UNDER APPENDIX A, BASIC STANDARDS.

11) PRIOR TO CONSTRUCTION, PROPERLY INSTALL SEDIMENT BARRIERS AT THE DOWN GRADIENT EDGE OF THE DISTURBED AREA AND ADJACENT TO DRAINAGE CHANNELS WITHIN THIS AREA.

12) SILT FENCE LOCATIONS SHOWN ARE APPROXIMATE. INSTALL WHERE APPROPRIATE TO CONTROL SEDIMENTATION ON AND OFF SITE. SILT FENCE SHALL BE REMOVED AFTER THE SITE IS STABILIZED WITH AT LEAST 90% VEGETATED GROWTH.

13) NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2 TO 1).

CHAIN LINK FENCE

NOT TO SCALE

ELEVATION

NOT TO SCALE

PLAN VIEW

SCALE : 1" = 4'±

BIKE RACK DETAIL

W	L
4'-0"	3'-6"±
5'-0"	2'-9"±
6'-0"	6'-0"
7'-0"	7'-0"
8'-0"	8'-0"

NOTES:

1) THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.

2) RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK (DEPTH OF SURFACE AND FOUNDATION)

3) IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.

SIDEWALK TIPDOWN DETAIL

NOT TO SCALE

NOTES

6"X6" PRESSURE TREATED SOUTHERN PINE POSTS SET IN CONCRETE 18" IN DIAMETER BURIED 2'-6" INTO THE GROUND.

4"X4" INTERMEDIATE POSTS TO BE BURIED 2'-6" INTO THE GROUND.

STOCKADE FENCE TRASH DUMPSTER ENCLOSURE

NOT TO SCALE

NOTE:

BACKFILL CAREFULLY TO AVOID DISTURBING CURB.

BITUMINOUS "CAPE COD" STYLE CURB

NOT TO SCALE

GRAVEL CROSS SECTION

NOT TO SCALE

PAVEMENT CROSS SECTION

NOT TO SCALE

CONCRETE PAD CROSS SECTION

NOT TO SCALE

STOCKADE FENCE DETAIL

NOT TO SCALE

BOLLARD DETAIL

NOT TO SCALE

OBLIQUE VIEW

END VIEW

NOTES:

1. CONCRETE: 4000 PSI MINIMUM AFTER 28 DAYS
2. SET 2' LONG PIECES OF ½" OR ⅝" REBAR IN HOLES
3. PRODUCT SHOWN IS A "TRUCK STOP" CURB MADE BY SHEA CONCRETE. EQUIVALENT PRODUCT FROM ANOTHER SUPPLIER MAY BE USED.

CONCRETE CURB

NOT TO SCALE

GENERAL CONSTRUCTION NOTES

1) THE CONTRACT WORK TO BE PERFORMED ON THIS PROJECT CONSISTS OF FURNISHING ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, IMPLEMENTS, PARTS AND SUPPLIES NECESSARY FOR OR APPURTENANT TO, THE INSTALLATION OF CONSTRUCTION IMPROVEMENTS IN ACCORDANCE WITH THESE DRAWINGS AND AS FURTHER ELABORATED IN ANY ACCOMPANYING SPECIFICATIONS.

2) THE WORK SHALL BE PERFORMED IN A THOROUGH WORKMANLIKE MANNER. ALL CONTRACTORS TO CONFORM TO ALL APPLICABLE OSHA STANDARDS. ANY REFERENCE TO A SPECIFICATION OR DESIGNATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, FEDERAL SPECIFICATIONS, OR OTHER STANDARDS, CODES OR ORDERS, REFERS TO THE MOST RECENT OR LATEST SPECIFICATION OR DESIGNATION.

3) ALL CONSTRUCTION WITHIN THE CITY OF PORTLAND AND/OR STATE OF MAINE RIGHT OF WAY SHALL COMPLY WITH CITY OF PORTLAND PUBLIC WORKS AND/OR MDOT STANDARDS.

4) THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY THE CITY OF PORTLAND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF PORTLAND REQUIRED TO PERFORM ALL THE WORK (STREET OPENINGS, BUILDING PERMIT, ETC.). THE CONTRACTOR SHALL POST ALL BONDS AS REQUIRED, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.

5) PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR IS TO INFORM ALL AREA UTILITY COMPANIES AND GOVERNMENTAL AGENCIES OF PLANNED CONSTRUCTION. THE SITE CONTRACTOR IS REQUIRED TO CONTACT DIG-SAFE (1-800-225-4977) AT LEAST 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION TO VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS.

6) THE PROJECT DRAWINGS ARE GENERALLY SCHEMATIC AND INDICATE THE POSSIBLE LOCATION OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING MUNICIPAL RECORD MAPS, AND FIELD SURVEY. IT IS NOT GUARANTEED TO BE CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES AS APPROPRIATE. THE CONTRACTOR IS TO PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING THE EXCAVATING AND BACKFILLING OPERATIONS. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE FOUND, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.

7) OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN TEN FEET (10') OF ANY ELECTRIC LINE . IF THE CONTRACTOR MUST OPERATE CLOSER THAN 10', THE CONTRACTOR MUST CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS BEFORE ENCROACHING ON THIS REQUIREMENT.

8) IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLANS, APPROVALS, AND DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS IN THE FIELD AND CONTACT THE DESIGN ENGINEER IF THERE ARE ANY DISCREPANCIES REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT AN APPROPRIATE REVISION CAN BE MADE PRIOR TO BIDDING.

9) ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED IN WRITING BY THE OWNER, DESIGN ENGINEER, AND APPROPRIATE GOVERNMENTAL AGENCY PRIOR TO INSTALLATION.

10) ALL EXCAVATION SHALL BE BACKFILLED TO EXISTING GRADE BEFORE THE END OF THE DAY OR ADEQUATELY PROTECTED FROM DANGER TO HUMANS AND ANIMALS.

11) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE OWNER WILL PROVIDE A BENCH MARK AT THE CONSTRUCTION SITE FROM WHICH TO BEGIN LAYOUT.

12) THE CONTRACTOR SHALL FURNISH ELECTRICAL POWER, WATER, AND SANITARY FACILITIES FOR HIS EXCLUSIVE USE AT THE CONSTRUCTION SITE SHOULD THE CONTRACTOR DEEM THIS ESSENTIAL FOR THE PROPER PERFORMANCE OF THE CONTRACT.

13) WORK MAY PROGRESS MONDAY THROUGH FRIDAY 7:00 AM TO 7:00 PM. WORK AT OTHER TIMES MAY PROCEED UPON WRITTEN APPROVAL BY THE OWNER AND THE CITY OF PORTLAND.

14) THE CONTRACTOR SHALL GUARANTEE THE FAITHFUL REMEDY OF ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND GUARANTEES PAYMENT FOR ANY RESULTING DAMAGE WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT.

15) THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.

16) PROPER IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE OF PARAMOUNT IMPORTANCE FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTIONS OF THE OWNER, THEIR REPRESENTATIVES, OR STATE/LOCAL/ FEDERAL INSPECTORS AT NO ADDITIONAL COST TO THE OWNER.

REVISED: NOVEMBER 4, 2014 - ADD CONCRETE CURB DETAIL
REVISED: SEPTEMBER 29, 2014 - CURB DETAILS
REVISED: SEPTEMBER 23, 2014 - ADD DETAILS

SHEET TITLE: CONSTRUCTION DETAILS & NOTES

SCALE: 1" = 20'
DATE: AUGUST 7, 2014
DRAWN BY: KRF
CHECKED BY: WMP

PROJECT: 55 WARREN AVENUE
PORTLAND, MAINE

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