

EXTERIOR LIGHTING NOTES:

1. THIS PHOTOMETRIC MODEL DEPICTS ALL EXTERIOR LIGHTS OPERATING SIMULTANEOUSLY.
2. LIGHT LOSS FACTOR (LLF) USED FOR DESIGN: 0.90
3. MOUNTING HEIGHT IS RELATIVE TO NEAREST ADJACENT FINISHED GRADE.
4. LUMINAIRES A-2 AND B-1 ARE MOUNTED ON TOP OF 2' TALL CONCRETE BASES. THUS, MOUNTING HEIGHT = STEEL POLE HEIGHT + 2'.
5. LUMINAIRES WITH PLAN TAG 'B-1' WILL BE INSTALLED AT OWNER'S OPTION.

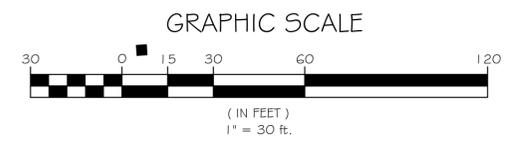
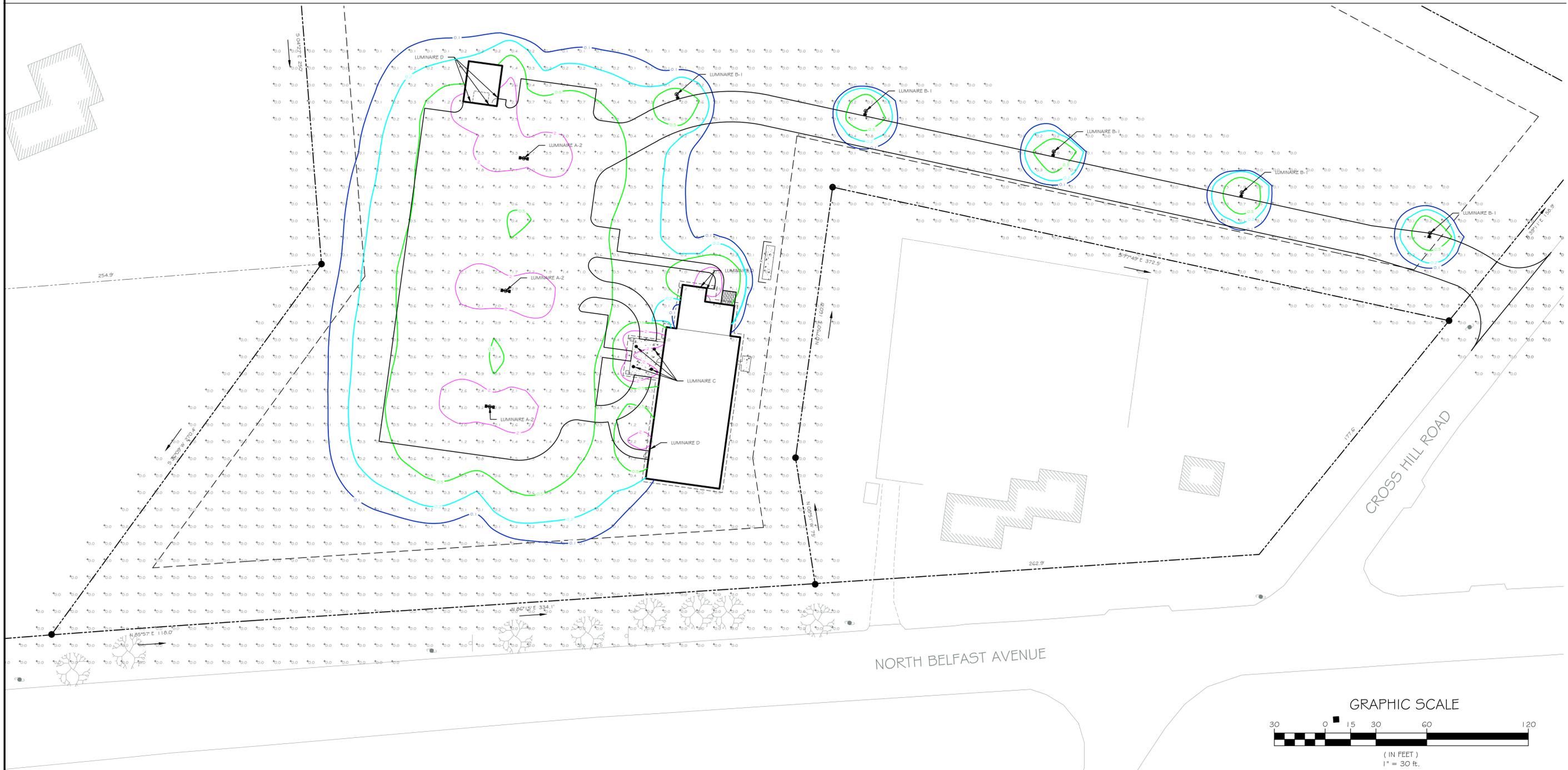
STATISTICAL SUMMARY OF PHOTOMETRIC POINTS: PARKING AREAS (UNITS: FOOT-CANDLES)			
VERTICAL ILLUMINANCE	PROVIDED	IESNA CRITERIA	RESULT
AVERAGE	1.2	0.8 (MIN.)	OK
MAXIMUM	3.3	N/A	OK
MINIMUM	0.3	0.2	OK
UNIFORMITY RATIO (MAX./MIN.)	11.0	20 (MAX.)	OK
AVERAGE / MIN	3.0	4 (MAX.)	OK

LUMINAIRE SCHEDULE					
PLAN TAG	MANUFACTURER	DESCRIPTION	PRODUCT #	TYPE	APPROX. MOUNTING HEIGHT (FT.)
A-2	RAB	(2) LED SITE LIGHTS MOUNTED BACK-TO-BACK ON A SHARED POLE	ALED4T78N	(2) 78W LEDS, TYPE IV DISTRIBUTION	27'-0"
B-1	RAB	(1) LED SITE LIGHT	ALED13N	(1) 13W LED	12'-0"
C	JUNO	CEILING-HUNG LED DOWNLIGHT	IC22LEDG4	(1) 12.5W LED	9'-0"
D	HUBBELL	LED WALLPACK	LNC-5LU-5K	(1) 12.6W LED	8'-0"

LINE LEGEND

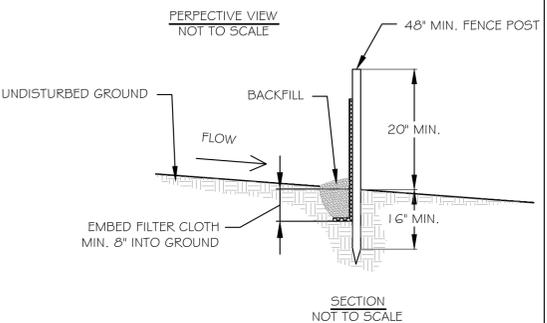
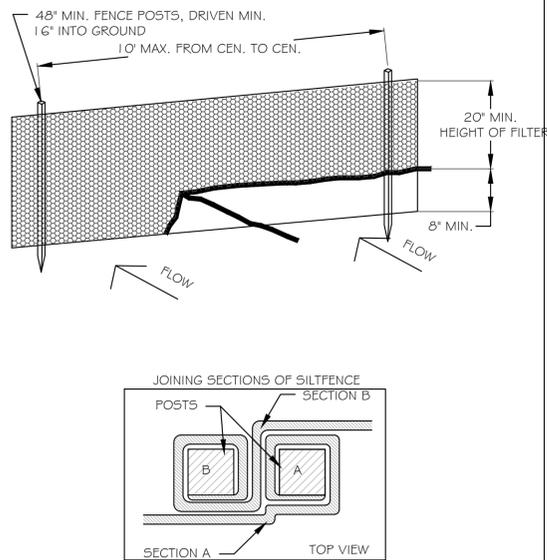
	PROPOSED		EXISTING
---	PROPERTY LINE	---	PROPERTY LINE
---	SETBACK LINE	---	SETBACK LINE
---	EDGE OF PAVEMENT	---	EDGE OF PAVEMENT
---	EDGE OF GRAVEL	---	EDGE OF GRAVEL
---	BUILDING CONTOUR	---	BUILDING CONTOUR
---	SPOT GRADE	---	SPOT GRADE
---	CHAIN LINK FENCE	---	CHAIN LINK FENCE
---	TREELINE	---	TREELINE
---	SIGN	---	SIGN
---	UTILITY POLE	---	UTILITY POLE
---	OVERHEAD ELECTRIC	---	OVERHEAD ELECTRIC
---	UNDERGROUND ELECTRIC	---	UNDERGROUND ELECTRIC
---	WATER LINE	---	WATER LINE
---	SEWER LINE	---	SEWER LINE
---	GAS LINE	---	GAS LINE
---	STORM DRAIN	---	STORM DRAIN
---	SILT FENCE	---	SILT FENCE
---	STONE CHECK DAM	---	STONE CHECK DAM
---	LIGHT FIXTURES	---	LIGHT FIXTURES

0.0 PHOTOMETRIC VALUE (FT.-CANDLES)
 0.1 PHOTOMETRIC CONTOUR (FT.-CANDLES)



PROJECT: Maine Regional Building Committee MRBC	PROJECT: Kingdom Hall of Jehovah's Witnesses ADDRESS: Cross Hill Road Augusta, Maine	SHEET TITLE: Photometrics Plan DRAWN: RC APPROVED: EH SCALE: AS NOTED DATE: 4/10/2014	5/22/14
			REVISIONS NO.
PHASE: PERMITTING			
C-3			

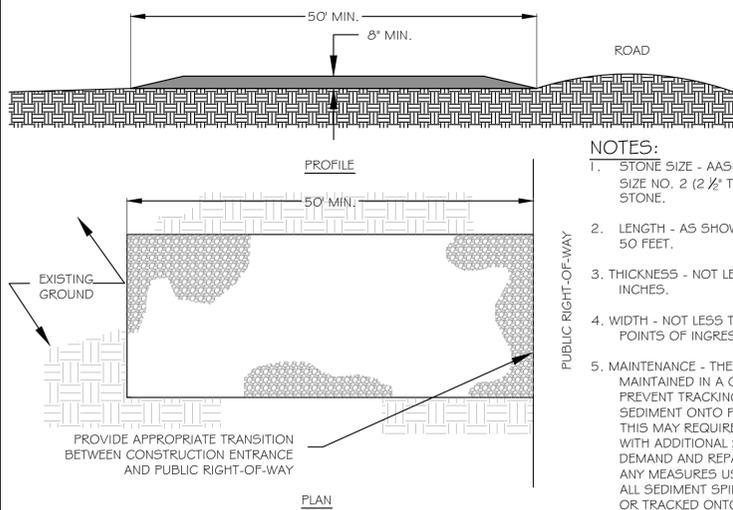
1 SILT FENCE DETAIL
N.T.S.
C-4



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE
2. SILT FENCE WILL BE DGI INDUSTRIES ME12303614 SILT FENCE, OR OTHER MDOT PRE-APPROVED SILT FENCE MEETING AASHTO M-288

2 CONSTRUCTION ENTRANCE DETAIL
N.T.S.
C-4

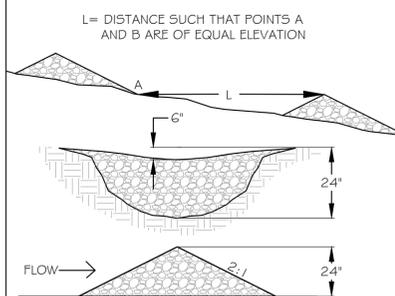


NOTES:

1. STONE SIZE - AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.
2. LENGTH - AS SHOWN ON SHEET C-2, MIN. 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS & EGRESS.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

PROVIDE APPROPRIATE TRANSITION BETWEEN CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY

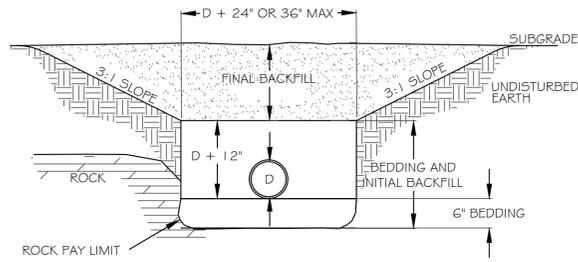
3 STONE CHECK DAM
N.T.S.
C-4



NOTE: USE MDOT STONE FOR FRENCH DRAINS (MDOT 703.24)

CHECK DAM SPACING VS. DITCH SLOPE	LENGTH (L) (FT.)	SLOPE (FT./FT.)
	100	0.02
	66	0.03
	50	0.04
	40	0.05
	25	0.08
	20	0.10
	17	0.12
	13	0.15

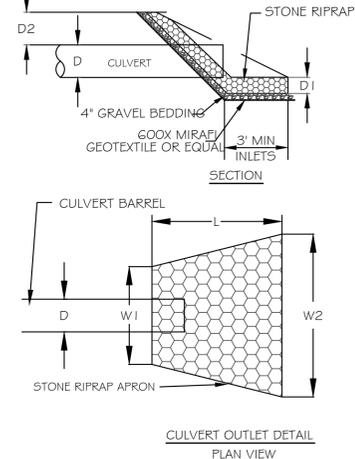
5 STORMDRAIN PIPE TRENCH
N.T.S.
C-4



NOTES:

1. BEDDING AND INITIAL BACKFILL SHALL BE SUB-BASE MATERIAL.
2. FINAL BACKFILL SHALL BE:
 - SUB-BASE COURSE GRAVEL (MDOT SPEC 703.06 (B) TYPE "D" (4" MINUS) COMPACTED TO 95% MDD UNDER ROADS & PATHS (BELOW PAVEMENT SECTION).
 - SUB-BASE COURSE GRAVEL (MDOT SPEC 703.06 (B) TYPE "D" (4" MINUS) COMPACTED 90% IN OTHER LOCATIONS.

6 RIPRAP APRON
N.T.S.
C-4



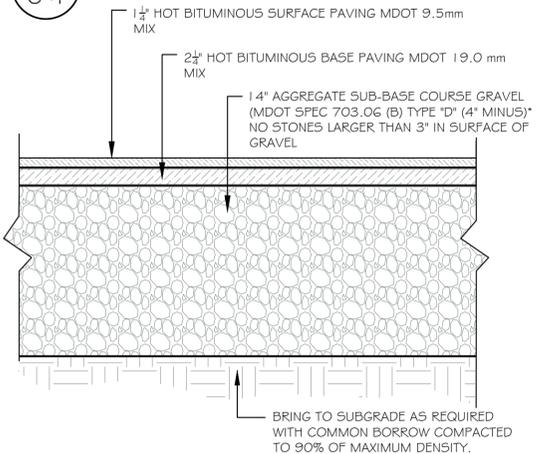
NOTES:

1. THE RIPRAP APRON SHALL BE CONSTRUCTED WITH NO SLOPE ALONG ITS LENGTH

D	D1	D2 INLET	D2 OUTLET
12"	9"	24"	12"

D	W1	W2	L	D50
12"	4'	14'	10'	4"

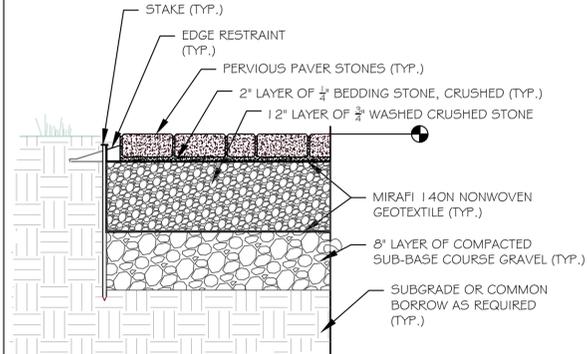
7 TYP. PARKING SECTION
N.T.S.
C-4



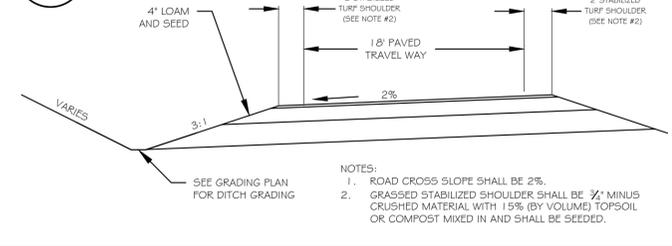
NOTES:

1. COMPACT GRAVEL BASE COURSE TO 95% OF MAXIMUM DRY DENSITY USING HEAVY ROLLER COMPACTION.
2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUB-BASE, BASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

8 TYP. PERVIOUS PAVER DETAIL
N.T.S.
C-4



9 TYP. ROAD CROSS SECTION
N.T.S.
C-4



NOTES:

1. ROAD CROSS SLOPE SHALL BE 2%.
2. GRASSED STABILIZED SHOULDER SHALL BE 3/4" MINUS CRUSHED MATERIAL WITH 15% (BY VOLUME) TOPSOIL OR COMPOST MIXED IN AND SHALL BE SEEDED.

**PRELIMINARY
NOT FOR CONSTRUCTION**

4 EROSION AND SEDIMENTATION CONTROL NOTES
C-4

PERMANENT SEEDING NOTES FOR ALL DISTURBED AREAS

1. DURING PERIOD FROM APRIL 15 TO OCTOBER 15, AREAS DISTURBED SHALL BE LIMED, FERTILIZED, SEEDED AND MULCHED AS FOLLOWS:
 - A. SEEDING SHALL BE AS SPECIFIED IN MDOT STANDARD SPECIFICATIONS, SECTION 618 FOR VARIOUS AREAS.
 - B. SEEDING SHALL INCLUDE FERTILIZERS, MULCH, LIME AND OTHER ITEMS IN SECTION 618.
2. AFTER SEEDING, AREAS DISTURBED SHALL BE MULCHED AS DESCRIBED IN MDOT STANDARD SPECIFICATIONS SECTION 619.
3. NO SEEDING SHALL TAKE PLACE BETWEEN JUNE 15 AND AUGUST 15. AS A CONTINGENCY PLAN, AREAS DISTURBED BETWEEN THESE DATES SHALL BE HAY MULCHED AT A RATE OF 2 BALES/1,000 SF. AND SECURED WITH A PEG AND TWINE OF 4-6 PEGS/SY OR WITH TERRA TACK II AT A RATE OF 60 GALLONS/ACRE.
4. WEEKLY, OR AFTER PRECIPITATION PRODUCING THE EQUIVALENT OF ONE HALF INCH OF RAINFALL OR SNOWMELT, ALL MULCHED AREAS SHALL BE INSPECTED FOR SUITABILITY FOR EROSION CONTROL AND SLOPE PROTECTION. WEAKENED AREAS SHALL BE RE-MULCHED AS DESCRIBED IN NOTE #2 ABOVE.
5. WITHIN 30-45 DAYS OF SEED APPLICATION, ALL AREAS SHALL BE INSPECTED FOR SATISFACTORY GROWTH. AREAS OF LESS THAN 75% GROWTH SHALL BE RESEEDED AT ORIGINAL APPLICATION RATES, MULCHED AND MAINTAINED ACCORDINGLY AS SPECIFIED ABOVE.
6. PERMANENT SEEDING SHALL BE INSTALLED IMMEDIATELY UPON REACHING FINAL GRADE IF THIS OCCURS WITHIN THE ALLOWABLE PLANTING SEASONS.

EROSION CONTROL CONSTRUCTION SEQUENCE

ALL EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL OCCUR AFTER APRIL 15 AND BEFORE NOVEMBER 15 UNLESS WINTER EROSION CONTROL MEASURES ARE IMPLEMENTED. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES PRIOR TO THE DISTURBANCE OF ANY WORK AREA.

1. INSTALL ALL SILT FENCING AND TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO STARTING EARTHMOVING ACTIVITIES.
2. GRADE PROJECT TO SUBGRADE LEVEL IN A LOGICAL MANNER TO MINIMIZE EARTH MOVING AND TO PRESERVE LAND NOT TO BE DISTURBED.
3. COMPLETE DRAINAGE, BUILDING AND UTILITY CONSTRUCTION.
4. COMPLETE FINISH GRADING. LOAM, SEED AND MULCH ALL DISTURBED AREAS NOT TO BE PAVED OR RIP-RAPPED.
5. COMPLETE UNFINISHED CONSTRUCTION.
6. REMOVE TEMPORARY DIVERSION DITCHES, HAY BALES, AND STONE CHECK DAMS WHEN 75% OF GRASS GROWTH HAS BEEN ESTABLISHED.

WINTER STABILIZATION CONTROL MEASURES NOTES

1. ALL OPEN AREAS WHICH ARE NOT PERMANENTLY STABILIZED WILL BE HEAVILY MULCHED WHEN WORK IS COMPLETED ON THE SITE AND NOT ANTICIPATED AGAIN WITHIN ONE DAY.
2. ALL OPEN AREAS WILL BE HEAVILY MULCHED EVERY NIGHT IN THE CASE OF A FORECAST OF STORMY WEATHER WITHIN 12 HOURS.

TEMPORARY SEEDING NOTES

1. ANY DISTURBED AREAS TO BE LEFT IN ROUGH GRADED FORM FOR MORE THAN 30 DAYS BUT LESS THAN ONE GROWING SEASON SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED.
2. APPLICATION RATES AND MATERIALS USED SHALL BE THE SAME AS FOR PERMANENT SEEDING EXCEPT SEED MIXTURE SHALL BE ANNUAL RYEGRASS.

DORMANT SEEDING NOTES

1. DURING PERIODS FROM OCTOBER 1 TO NOVEMBER 15, AREAS DISTURBED SHALL BE DORMANT SEEDED WITH WINTER RYE, 1.5 LB/1,000 SF. DURING PERIODS BETWEEN NOVEMBER 15 AND APRIL 15, DISTURBED AREAS SHALL BE MULCHED AND IF NECESSARY, STABILIZED WITH EROSION CONTROL MESH.

GENERAL NOTES

1. ON-SITE STABILIZATION WILL BE DONE WITHIN 15 DAYS OF FINAL GRADING OR WITHIN 30 DAYS OF INITIAL SOIL DISTURBANCE.
2. EVERY WEEK AND AFTER PRECIPITATION PRODUCING THE EQUIVALENT OF ONE HALF INCH OF RAINFALL, THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVAL OF SEDIMENT FROM SILT FENCE IF SOIL ACCUMULATES TO A DEPTH OF ONE-HALF THE FABRIC HEIGHT; REPAIR OF STONE CHECK DAMS IF RUNOFF CHANNELIZES UNDER OR AROUND THE DAMS; AND WASHING OF TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO OCCURRENCES OF SIGNIFICANT TRACKING.
3. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH "MAINE EROSION & SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES", BY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, 2003 & MDEP CHAPTER 500 STORMWATER MANAGEMENT; APPENDIX A, B & C.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES, INCLUDING MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL.
5. EROSION CONTROL MAT SHALL BE INSTALLED ON ALL LOAMED AND SEEDED AREAS WHICH HAVE A SLOPE GREATER THAN 3:1.
6. WATER SHALL BE UTILIZED TO CONTROL DUST IF NECESSARY (AS DETERMINED BY THE ENGINEER).
7. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A MONTHLY BASIS ONCE FINAL STABILIZATION IS COMPLETE, BY THE INSPECTING ENGINEER AND THE CONTRACTOR SHALL COOPERATE WITH HIS/HER DIRECTION. THIS INSPECTION IN NO WAY REDUCES OR ELIMINATES THE CONTRACTOR'S RESPONSIBILITY TO ADHERE WITH VERBAL OR WRITTEN REQUIREMENTS OF DEP, ARMY CORPS, EPA, OR OTHER JURISDICTIONAL AGENCIES.
8. AFTER EACH INSPECTION OF EROSION CONTROL MEASURES, AN INSPECTION REPORT DETAILING THE SCOPE OF THE INSPECTION, NAME(S) OF PERSONNEL CONDUCTING THE INSPECTION, DATE, MAJOR OBSERVATIONS, AND ACTIONS TAKEN, SHALL BE MADE AND KEPT ON FILE FOR THREE YEARS AFTER THE INSPECTION.

INFRASTRUCTURE MAINTENANCE

STRUCTURE TYPE	INSPECTION	CLEANING
HAY BALES	MONTHLY	AS NEEDED
STONE CHECK DAMS	MONTHLY	AS NEEDED
SILT FENCES	MONTHLY	AS NEEDED
CULVERTS	MONTHLY	AS NEEDED
DRY POND	MONTHLY	AS NEEDED

SPECIFIC INSTRUCTIONS:

1. SILT FENCE - SILT FENCES SHOULD BE CHECKED AT LEAST MONTHLY DURING CONSTRUCTION. IF NEEDED, THEY SHOULD BE REPLACED.
2. CULVERTS - CULVERTS SHOULD BE CHECKED MONTHLY FOR ACCUMULATION OF DEBRIS. IF NEEDED THEY SHOULD BE DREDGED.

*A STORMWATER MAINTENANCE LOG SHOULD BE MAINTAINED TO DOCUMENT COMPLIANCE WITH THE SUGGESTED SCHEDULE.

PROJECT: Kingdom Hall of Jehovah's Witnesses
ADDRESS: Cross Hill Road, Augusta, Maine

SHEET TITLE: Details
DRAWN: RCIRF
APPROVED: EH
SCALE: AS NOTED
DATE: 4/26/2013

PHASE: CONSTRUCTION

STATE OF MAINE
EERO HEDEPINE
No. 1011
LICENSED PROFESSIONAL ENGINEER
5.22.14

MRBC

C-4

