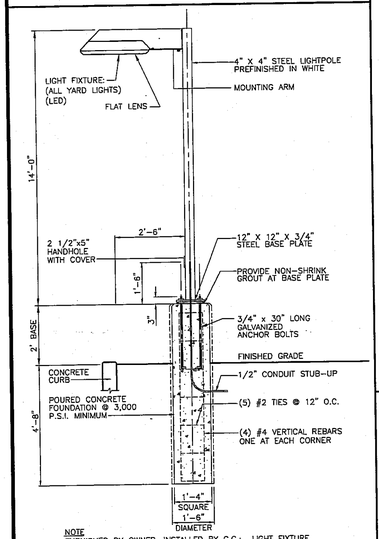
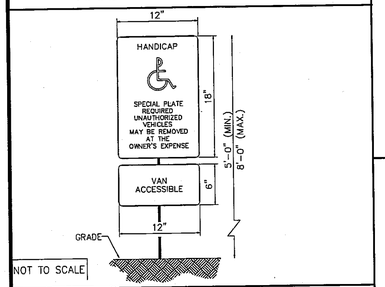
LIGHT POLE DETAIL



NOTE
FURNISHED BY OWNER, INSTALLED BY G.C.: LIGHT FIXTURE, MOUNTING ARM, POLE, ANCHOR BOLTS, NUTS, AND WASHERS BY OWNER, ALL OTHER MATERIALS FURNISHED AND INSTALLED BY G.C.

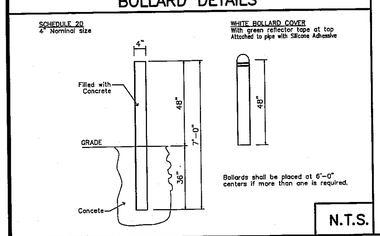
LED CROSSOVER AREA LIGHT BY LSI
IESNA FULL CUTOFF

HANDICAP SIGN DETAIL



NOT TO SCALE

BOLLARD DETAILS



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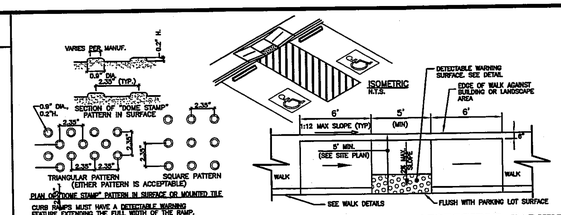
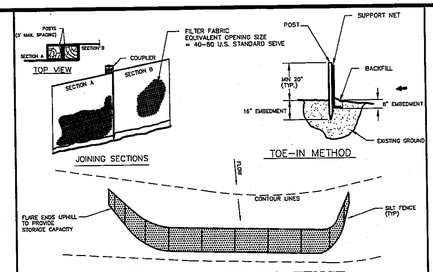


CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE EXTENDING THE FULL WIDTH OF THE RAMP. THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO CENTER SPACING OF NOMINAL 2.35 INCHES. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACE. (INTEGRALLY COLORED YELLOW CONCRETE OR YELLOW TILE)

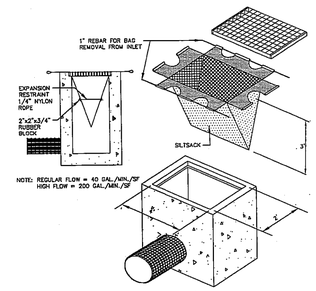
DETECTABLE WARNING SURFACE
NOT TO SCALE

ACCESSIBLE PARKING RAMP
NOT TO SCALE

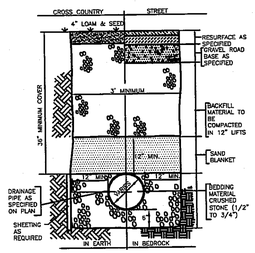


SEDIMENT CONTROL FENCE
NOT TO SCALE

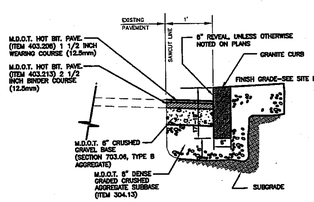
NOTES:
1. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
3. ENDS OF THE FENCE SHALL BE PLACED UP CONTOUR OF THE FLOW TO TRAP SEDIMENT.



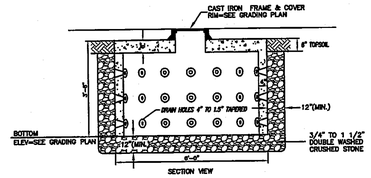
SILTSACK DETAIL-ON OR OFF SITE
NOT TO SCALE



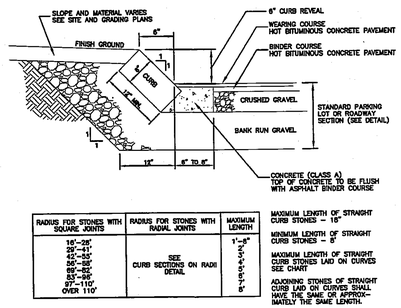
TYPICAL TRENCH SECTION FOR STORM DRAIN
NOT TO SCALE



VERTICAL GRANITE CURB SECTION
NOT TO SCALE



PRECAST DRYWELL CB
NOT TO SCALE
E.F. SHEA MODEL DW-500SDW OR EQUAL



RADIUS FOR STONES WITH SQUARE JOINTS	RADIUS FOR STONES WITH RADIAL JOINTS	MAXIMUM LENGTH
19'-29'	SEE CURB SECTIONS ON RADII DETAIL	1'-8"
29'-41'		2'-0"
41'-56'		2'-6"
56'-86'		3'-0"
86'-85'		4'-0"
85'-87'		5'-0"
87'-110'		6'-0"
OVER 110'		8'

MAXIMUM LENGTH OF STRAIGHT CURB STONES – 18'

MINIMUM LENGTH OF STRAIGHT CURB STONES – 8'

MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES SEE CHART

ADJOINING STONES OF STRAIGHT CURB LAID ON CURVES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.

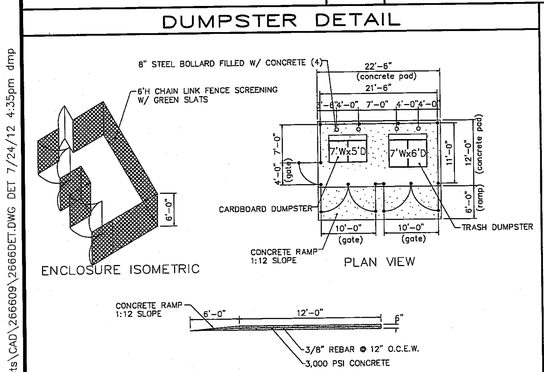
SLOPED GRANITE CURB
NOT TO SCALE

CONSTRUCTION SEQUENCE:

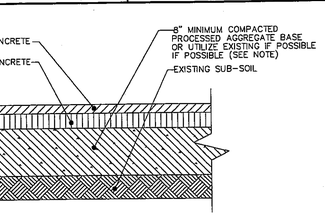
1. INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
2. CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
3. REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEEDED TO PREVENT EROSION.
4. PROTECT CULVERT INLETS AND CATCH BASINS WITH SEDIMENTATION BARRIERS.
5. PERFORM SITE GRADING, PLACING SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
6. INSTALL UNDERGROUND UTILITIES.
7. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION.
8. DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING. REFER TO OPERATION AND MAINTENANCE PLAN FOR ADDITIONAL REQUIREMENTS AND INFORMATION. COPIES OF ALL INSPECTION REPORTS ARE TO BE PROVIDED TO THE CONSERVATION COMMISSION DURING CONSTRUCTION AND AVAILABLE UPON REQUEST AFTER CONSTRUCTION IS COMPLETED.
9. BEGIN EXCAVATION FOR AND CONSTRUCTION OF BUILDINGS.
10. FINISH PAVING ALL DRIVES AND PARKING AREAS.
11. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
12. AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

EROSION CONTROL MEASURES & MAINTENANCE

1. DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED:
2. INSTALLATION OF SILTATION FENCES AND ORANGE CONSTRUCTION FENCE SHALL BE COMPLETED PRIOR TO THE START OF THE SITE WORK IN ANY GIVEN AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
3. SILTATION FENCES, AND ORANGE CONSTRUCTION FENCE SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATIVE COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY 0.5" OF RAINFALL.
4. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
5. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING WITH EITHER PERMANENT MEASURES OR TEMPORARY MEASURES. IN NO CASE SHALL ANY DISTURBED AREAS BE LEFT UNSTABILIZED WITH EITHER PERMANENT OR TEMPORARY EROSION CONTROL MEASURES FOR MORE THAN 72 HOURS, OR AS NEEDED TO ENSURE SUFFICIENT STABILIZATION DUE TO WEATHER OR OTHER CONDITIONS. SIMULTANEOUS WORK IN MULTIPLE AREAS MAY BE PERMITTED AS NEEDED. SUBJECT TO THE ABOVE, HOWEVER THE CONTRACTOR SHALL NOT DISTURB AREAS THAT CANNOT REASONABLY BE PROPERLY STABILIZED AND MAINTAINED WITHIN 72 HOURS.
6. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 6" OF LOAM INSTALLED WITH MIX. SEED MIXTURE SHALL BE:
   A. SLOPE AND DETENTION MIX – 1.5LBS/1000SF (TYPE 2):
      PERRENIAL SWEET PEA – 20%
      WILD LUPINE – 50%
      SNOWY TICK TREFOIL – 15%
      WHITE CLOVER – 15%
   B. MIX: LAWN: MIX – 3LBS/1000SF (TYPE 1):
      PERENNIAL RYEGRASS – 10%
      ANNUAL RYEGRASS – 5%
      KENTUCKY BLUEGRASS – 25%
      CREEPING RED FESCUE – 45%
      CHEWINGS RYEGRASS – 15%
7. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 300 LBS. PER ACRE OF 10–10–10 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
8. HAY MULCH AND SLOPE PROTECTION BLANKET SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. SLOPE PROTECTION BLANKET SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR THE DETAILS.
9. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM APRIL 15 TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
10. PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS, ALL DRAINAGE STRUCTURES AND PIPES SHALL BE INSTALLED AND INSPECTED FOR PROPER FUNCTION. DURING CONSTRUCTION OF OTHER SITE FEATURES, ALL DRAINAGE FACILITIES SHALL BE INSPECTED ON A DAILY BASIS AND CLEANED/REPAIRED IMMEDIATELY UPON DISCOVERY OF SEDIMENT BUILD–UP OR DAMAGE.
11. EROSION CONTROLS ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS. DISCOVERY OF SILT BUILD–UP IN CATCH BASIN SUMPS OR ANY OTHER STRUCTURE SHALL REQUIRE CLEANING.
12. ALL EXPOSED SOILS SHALL BE IMMEDIATELY STABILIZED WITH A LAYER OF MULCH HAY.
13. UPON INSTALLATION OF CATCH BASINS, INLET PROTECTION – AS DESCRIBED ON AFOREMENTIONED PLAN – SHALL BE INSTALLED AND MAINTAINED UNTIL READY FOR PAVING.
14. CALCIUM CHLORIDE AND/OR WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS.
15. IF, DURING CONSTRUCTION, IT COMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE CITY OR OWNER.
16. OVER WINTER STABILIZATION (IF NEEDED)
   A. PERMANENT STABILIZATION CONSISTS OF AT LEAST 85% VEGETATION, PAVEMENT/GRAVEL BASE OR RIPRAP
   B. DO NOT EXPOSE SLOPES OR LEAVE SLOPES EXPOSED OVER THE WINTER OR FOR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY PROTECTED WITH MULCH.
   C. APPLY HAY MULCH AT TWICE THE STANDARD RATE (150 LBS. PER 1,000 SF). THE MULCH MUST BE THICK ENOUGH SUCH THAT THE GROUND SURFACE WILL NOT BE VISIBLE AND MUST BE ANCHORED.
   D. USE MULCH AND MULCH NETTING OR AN EROSION CONTROL BLANKET OR MIX FOR ALL SLOPES GREATER THAN 5% OR OTHER AREAS EXPOSED TO DIRECT WIND.
   E. INSTALL EROSION CONTROL BLANKETS IN ALL DRAINAGE WAYS (BOTTOM AND SIDES) WITH A SLOPE GREATER THAN 3%.
   F. SEE THE VEGETATION MEASURES FOR MORE INFORMATION ON SEEDING DATES AND TYPES.
17. WINTER CONSTRUCTION (IF NEEDED)
   A. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED AS SUCH NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
   B. AN AREA WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIER.
   C. TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKDAY IN AREAS WITHIN 100 FEET FROM A PROTECTED NATURAL RESOURCE.
   D. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE PERMANENTLY MULCHED THE SAME DAY.
   E. IN THE EVENT OF A SNOWFALL GREATER THAN 1 INCH (FRESH OR CUMULATIVE). THE SNOW SHALL BE REMOVED FROM AREAS DUE TO BE SEEDED AND MULCHED.
   F. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.
   G. A DITCH THAT WILL BE CONSTRUCTED DURING THE WINTER MUST BE STABILIZED WITH RIPRAP.
   H. ALL DITCHES OR SWALES WHICH DO NOT SHOW A MIN. OF 85% VEGETATION BY OCT. 15 OR WHICH ARE DISTURBED AFTER OCT. 15 SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOWS.
   I. AFTER NOV. 15 INCOMPLETE ROAD OR PARKING SURFACES WHERE WORK HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER MDOT.



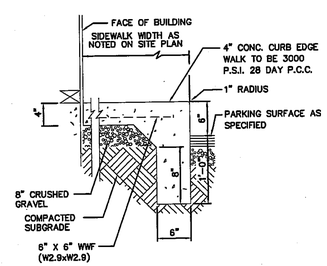
SCALE: N.T.S.



1. THE SOIL MUST HAVE A MOISTURE CONTENT DRY OF OPTIMUM AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D1557.
2. THE SOIL CAN BE COMPACTED TO 95 % OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D698
3. THE SOIL SHALL NOT BE USED IF THE MATERIAL CONTAINS ORGANIC MATTER, RUBBLE, DEBRIS OR ANY OTHER DELETERIOUS MATERIAL.

rev. 4/19/07

PARKING LOT PAVEMENT DETAIL
NOT TO SCALE



SIDEWALK DETAIL
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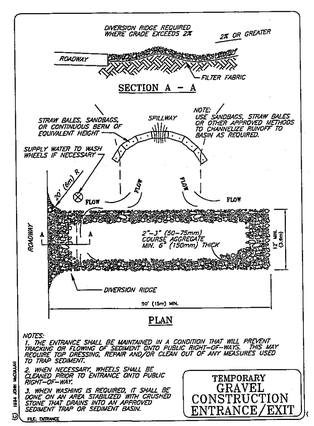

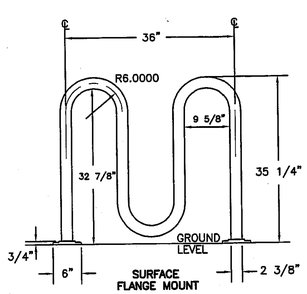

5 BIKE RIBBON RACK
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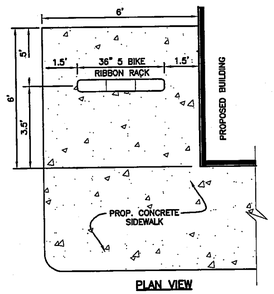

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BRANDIR INTERNATIONAL INC.
800-849-3488

REVISIONS

DATE	REV. BY.	DESCRIPTION
3/29/12	CMT	ADD DETAILS
6/15/12	CMT	MISC. REVISIONS
7/24/12	CMT	MISC. REVISIONS

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