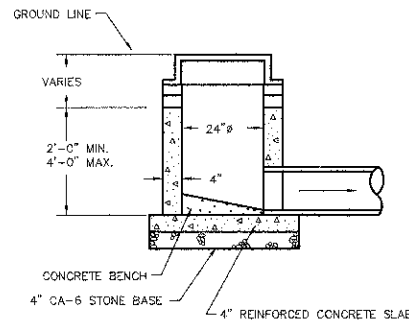


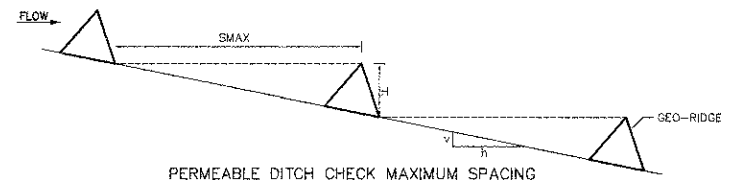
SPLIT RAIL FENCE - 3 RAIL

- NOTES:
1. CONTRACTOR SHALL SUBMIT AND PROVIDE DATA FOR FENCE POSTS, RAILS, AND ALL OTHER ACCESSORIES.
  2. PRIOR TO INSTALLATION OF THE FENCE, SAMPLES OF THE POSTS, RAILS, AND ALL ACCESSORIES SHALL BE PROVIDED TO THE OWNER FOR APPROVAL.
  3. POST HOLES LOCATED WITHIN DESIGNATED WETLAND BOUNDARIES SHALL BE CIRCLED USING AN AUGER WITH A DIAMETER NO GREATER THAN 80% OF THE POST DIAMETER. MATERIAL EXCAVATED DURING CREATION OF THE HOLE MUST BE DEPOSITED OUTSIDE OF DESIGNATED WETLAND AREA. NO VEHICULAR ACCESS, MACHINERY, OR OTHER TYPES OF ACCESS WHICH MAY IMPACT THE WETLAND OR VIOLATE THE CONDITIONS OF THE RELEVANT WETLAND PERMITS SHALL BE ALLOWED.
  4. POST HOLE DEPTH SHALL BE SET TO ACCOMMODATE THE FINISHED DIMENSIONS AS SHOWN IN THE PLANS, APPROXIMATELY 30 INCHES. POST TO BE PRESSED OR LIGHTLY DRIVEN INTO HOLE. CARE SHOULD BE TAKEN TO PROTECT POST FROM DAMAGE DURING INSTALLATION PROCESS.

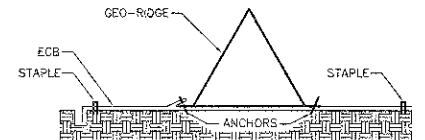


- NOTES:
1. PIPE OPENINGS TO BE PRECAST INTO WALLS.
  2. PRECAST REINFORCED CONCRETE SECTIONS WITH PREFORMED BITUMINOUS JOINTS AND INTEGRAL PRECAST BOTTOMS.
  3. FRAME TO BE LAID IN 3/4" MASTIC BED.
  4. ADJUSTING RINGS NOT TO EXCEED 8".
  5. NEENAH R-4240-B ROUND BEEHIVE GRATE IN GRASS AREAS.
  6. INLETS IN PAVEMENT AREAS SHALL BE NEENAH R-2013-D.
  7. TWO 10' LONG 4" PERFORATED PVC SDR 35 FINGER DRAINS REQUIRED IN ALL PROPOSED PAVEMENT AREAS. SEE FINGER DRAIN DETAIL.

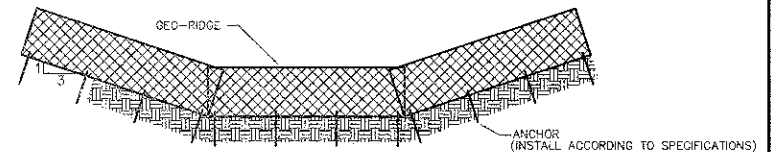
INLET



PERMEABLE DITCH CHECK MAXIMUM SPACING



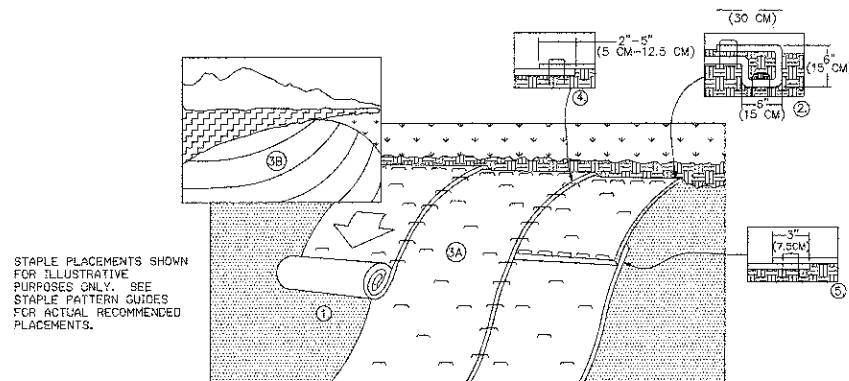
PERMEABLE DITCH CHECK CROSS-SECTION



TYPICAL DITCH CROSS-SECTION

- NOTES:
1. THE PERMEABLE DITCH CHECK SHALL BE GEO-RIDGE, OR EQUIVALENT.
  2. THE PERMEABLE DITCH CHECK SHALL BE ANCHORED WITH 10" GALVANIZED ARDOX SPIKES WITH A 3/8" X 1.5" GALVANIZED WASHER.
  3. THE EROSION CONTROL BLANKET (ECB) SHALL BE A MACHINE-PRODUCED MAT OF 100% COCONUT FIBER MATRIX STITCH BONDED WITH UV STABILIZED THREAD BETWEEN TWO UV STABILIZED POLYPROPYLENE NETTINGS. THE ECB SHALL BE C125 AS MANUFACTURED BY NORTH AMERICAN GREEN (NAG), OR EQUIVALENT.
  4. THE PERMEABLE DITCH CHECK SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
  5. THE PERMEABLE DITCH CHECK SHALL BE CLEANED WHEN SEDIMENT HAS ACCUMULATED HALF THE HEIGHT OF THE DITCH CHECK.
  6. THE PERMEABLE DITCH CHECK SHALL BE REMOVED ONLY AFTER SITE HAS ACHIEVED FULL STABILIZATION.
  7. THE DEGRADABLE VERSION SHALL ONLY BE USED ON TOP OF AN EROSION CONTROL BLANKET, TURF REINFORCEMENT MAT OR STABILIZED AREA.

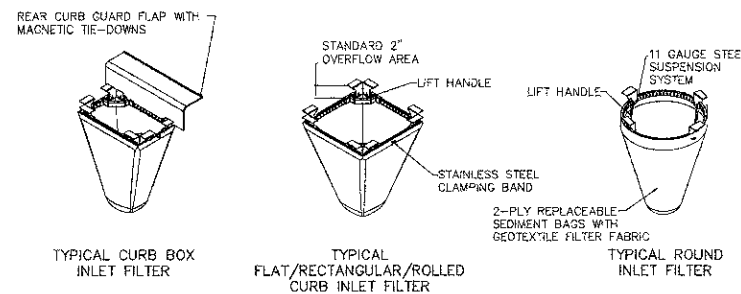
GEO-RIDGE PERMEABLE DITCH CHECK



STAPLE PLACEMENTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEE STAPLE PATTERN GUIDES FOR ACTUAL RECOMMENDED PLACEMENTS.

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
  2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
  3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
  4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
  5. CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
- NOTE:
- \*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

EROSION CONTROL BLANKET SLOPE INSTALLATION

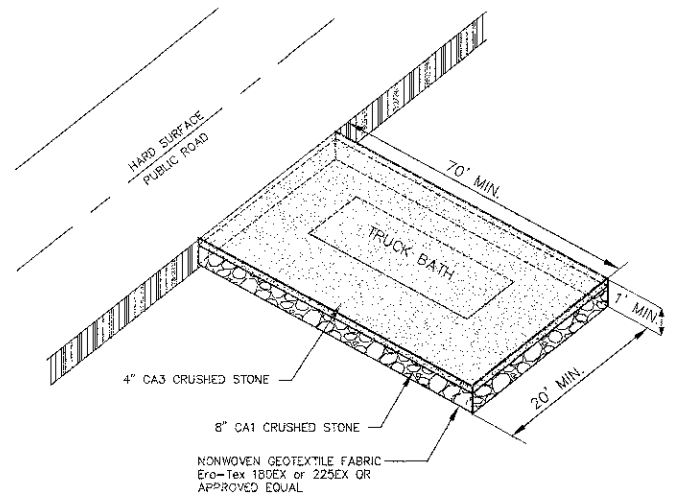


ACCEPTABLE MANUFACTURER'S AS LISTED BELOW 1. INLET & PIPE PROTECTION, INC. Naperville, IL 60564 847 722-0690 2. MARATHON MATERIALS, INC. Plainfield, IL 60544 800-983-9493

MAINTENANCE 1. CLEAN OUT AFTER EVERY RAIN EVENT

Material Property	Test Method	Value (min. av.)
> Inlet Filter Box Specs (216 min. wt.)		
Grab Tensile	ASTM D 4632	100 lbs
Puncture Strength	ASTM D 4632	65 lbs
Trapezoidal Tear	ASTM D 4535	45 lbs
UV Stabilities	ASTM D 4355	70% at 500 hrs
App Open Size (AOS)	ASTM D 4751	70 sieve (212 mm) (425 mm)
Permeability	ASTM D 4491	2.0/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft
> Polyester Geotextile Reinforcement Box Specifications		
Weight	ASTM D 3776	4.55 oz/sqyd +/-15%
Thickness	ASTM D 1777	.040 +/- .005
> Frame Construction		
A36 Structural Steel, 11 Gauge, Zinc Plated	ASTM A 576	Tensile Strength > 58,000 psi Yield Strength > 36,000 psi

INLET FILTER BASKET DETAIL



- MAINTENANCE
1. STREET CLEANING
  2. ENTRANCE CLEANING
  3. TRUCK BATH CLEANOUT
  4. TRUCK BATH WATER MUST BE SEDIMENT FREE BEFORE DISCHARGE.

TEMPORARY CONSTRUCTION ENTRANCE

FILE NAME = 4536.705-DT1.dwg

USER NAME = DAN STRAHAN

DESIGNED - DJS

REVISED - 9-7-12

PLOT SCALE = 1:1

DRAWN - PJS

REVISED - 10-19-12

PLOT DATE = 5/28/2012

CHECKED - TPG

REVISED - 12-17-12

DATE - 5-29-12

REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MISC. CONSTRUCTION DETAILS  
GRASS LAKE ROAD BIKE PATH UNDERPASS

SCALE N.T.S.

SHEET NO. 1 OF 1 SHEETS

STA.

TO STA.

FAU.

RTE

SECTION

0174

09-P0075-15-BT

LAKE

CONTRACT # 63778

COUNTY

LAKE

TOTAL SHEETS

74

SHEET NO.

57

ILLINOIS FED. AID PROJECT