**NOTES:**

1. FLARED END SECTION SHALL BE HIGH DENSITY POLYETHYLENE MEETING ASTM D3350 MINIMUM CELL CLASSIFICATION 213300C.
2. METAL THREADED FASTENING ROD SHALL BE STAINLESS STEEL.
3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

**CHANNEL DIMENSIONS ARE FOR THE COMPLETED CHANNEL FINISH SURFACE GRADE.**

**1.** INSTALL EROSION CONTROL BLANKET LINING TO SOIL CONTACT. THE CHANNEL SHALL BE INITIALLY OVER-EXCAVATED TO ALLOW STABILIZED PER THE CHANNEL CROSS-SECTION DETAIL. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

**2.** VEGETATED CHANNELS SHALL BE CONSTRUCTED FREE OF ROCKS, TREE ROOTS, STUMPS OR OTHER PROJECTIONS THAT WILL IMPEDE NORMAL CHANNEL FLOW AND/OR PREVENT GOOD SLOPES PRIOR TO INSTALLATION PER MANUFACTURER RECOMMENDATIONS.

**3.** ALL CHANNELS MUST BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES AND WOODY DEBRIS, ACCUMULATED SEDIMENT, AND CONSTRUCTION MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOIST AND/OR FREE OF ALL WEEEDY MATERIALS/WASTES. MATERIALS/WASTES THAT WERE THROWN INTO THE CHANNEL(S) SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL(S) REPAIRED AND STABILIZED FOR THE CHANNEL CROSS-SECTION DETAIL. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

**4.** THE NORTHERN PASS SHALL BE REPAIRED TO THE LINES AND GRADES SHOWN.

**5.** THE ROCK USED FOR RIP-RAP SHALL CONFORM TO MNDOT CLASS C STONE.

**6.** GRASS SWALE CROSS SECTION NOT FOR CONSTRUCTION FOR PERMITTING PURPOSES ONLY.
EXCAVATED TRENCH LIMITS "RAM-NEK" OR EQUIVALENT UNDISTURBED EARTH PLAN SECTION A-A
TRENCH WIDTH "RAM-NEK" OR EQUIVALENT BOTTOM OF TRENCH SIDE OF TRENCH FINISHED GRADE
NOTES:
1. INFLATION BARN BASE MATERIAL SHALL BE A 6" LAYER CONSISTING OF CORROUED SAND OR 3/8" PEA GRAVEL.
2. AFTER THE BASIN IS EXCAVATED TO THE FINAL DESIGN ELVATION, THE FLOOR SHALL BE ROLLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
3. ABSOLUTELY NO RUNOFF IS TO ENTER INFILTRATION BASIN BUT ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED. SURFACE OF BASIN SHALL BE LEVEL.

OUTLET CONTROL STRUCTURE NOTES:
1. CATCH BARN STRUCTURE IS TO BE PRECAST CONCRETE.
2. THE LOCATION AND ELVATION INDICATED ON NPTT907-C104 ARE AT THE TOP CENTER OF THE GRATE. THE ORIFICE HOLES SHALL BE PLACED AT THE ELVATIONS AS SHOWN ON THE PLANS AND DETAILS.
3. GRATING SHALL BE AMICO STANDARD WELDED TYPE "W" 19W4 RESISTANCE WELDED GRATING AS MANUFACTURED BY ALABAMA METAL INDUSTRIES CORP. OR ENGINEERING APPROVED EQUAL.

NOTES:
1. WRAP PIPE WITH "RAM-NEK" OR EQUIVALENT WHERE PIPE IS EXPOSED TO CONCRETE PRIOR TO POURING.
2. EXCAVATION & BACKFILL SHALL BE AS SPECIFIED.
3. DO NOT PLACE WITHIN 2 FEET OF A PIPE JOINT.
4. REFER TO DETAIL 1 FOR LOCATION.

PROVIDE THREE DIMENSIONAL TRASH RACK (NOT FLAT AGAINST THE OCS FACE). TRASH BACK FLOW THROUGH RATE SHALL MATCH OR EXCEED THE OCS ORIFICE FLOW RATE.

OUTLET CONTROL STRUCTURE:

NORTH INFILTRATION BASIN CROSS SECTION
NOT TO SCALE

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3. DO NOT PLACE WITHIN 2 FEET OF A PIPE JOINT.
4. REFER TO DETAIL 1 FOR LOCATION.

EXCAVATION & BACKFILL SHALL BE AS SPECIFIED.

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

INFLATION VOLUME 485.15
PROVIDE THREE DIMENSIONAL TRASH RACK (NOT FLAT AGAINST THE OCS FACE). TRASH BACK FLOW THROUGH RATE SHALL MATCH OR EXCEED THE OCS ORIFICE FLOW RATE.
OUTLET CONTROL STRUCTURE NOTES:

1. INFILTRATION BASIN BASE MATERIAL SHALL BE A 4" LAYER CONSISTING OF COARSE SAND OR 3/8" PEA GRAVEL.

2. AFTER THE BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHALL BE FLATTENED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES. FOLLOWED BY A PASS WITH A LEVELING GRADER.

3. ABSOLUTELY NO RUNOFF IS TO ENTER INFILTRATION BASIN UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED. SURFACE OF BASIN SHALL BE LEVEL.

INFILTRATION BASIN CROSS SECTION

- PROVIDE THREE DIMENSIONAL TRASH RACK (NOT FLAT AGAINST THE OCS FACE). TRASH RACK FLOW THRU RATE SHALL MATCH OR EXCEED THE OCS ORIFICE FLOW RATE.

OUTLET CONTROL STRUCTURE NOTES:

1. CATCH BASIN STRUCTURE IS TO BE PRECAST CONCRETE.

2. THE LOCATION AND ELEVATION INDICATED ON WPTT9-C14 ARE AT THE TOP CENTER OF THE GRADE. THE ORIFICE HOLES SHOULD BE PLACED AT THE ELEVATIONS AS SHOWN ON THE PLANS AND DETAILS.

3. GRATING SHALL BE AMICO STANDARD WELDED TYPE "W" 19W4 RESISTANCE WELDED GRATING MANUFACTURED BY ALABAMA METAL INDUSTRIES CORP. OR ENGINEERING APPROVED EQUAL.

NOTES:

1. INFILTRATION BASIN BASE MATERIAL SHALL BE A 6" LAYER CONSISTING OF COARSE SAND OR 3/8" PEA GRAVEL.

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