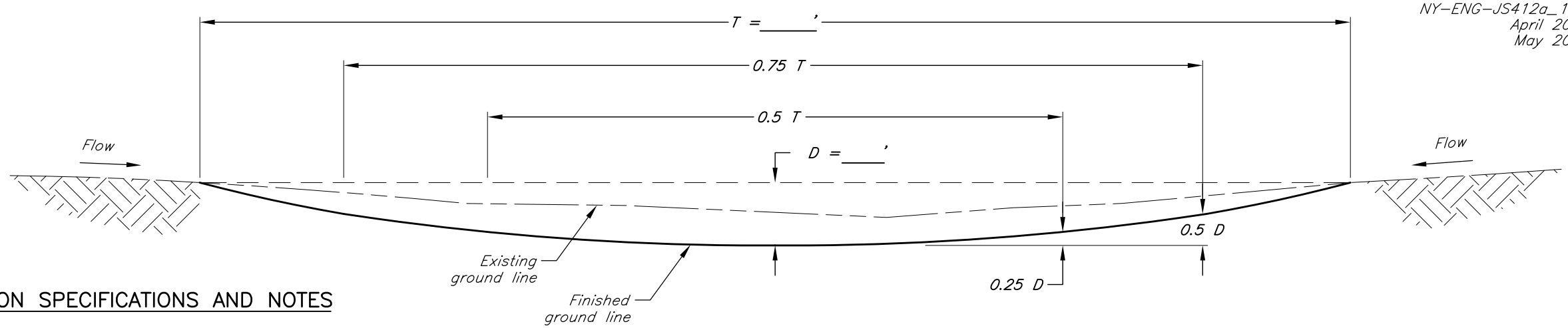
NY–ENG–JS412a_1–2
April 2003
May 2005



TYPICAL PARABOLIC CROSS–SECTION

CONSTRUCTION SPECIFICATIONS AND NOTES

1. *The waterway shall be constructed at the location marked in the field.*
2. *All trees, brush, stumps, sod, and other objectionable material shall be legally disposed of so they will not interfere with the construction or proper functioning of the waterway or outlet.*
3. *Where filling is necessary, heavy sod shall be removed. Fill shall not contain vegetation, sod, frozen material, brush, roots, stones larger than (6) inches in diameter, or other objectionable material. Eroded areas shall be sloped and scarified to 1H to 1V (1:1) or flatter to insure bonding with the fill being placed. Fill shall not be placed on frozen surface. Fill shall be placed in uniform layers not to exceed (9) inches prior to compaction. The moisture content of the fill shall be sufficient to obtain firm compaction. Compaction shall be accomplished by the routing of construction equipment over the fill such that the entire surface of each layer will be traversed by not less than (1) track of the construction equipment.*
4. *All earth excavated and not needed in the construction of the waterway shall be spread adjacent to the waterway or shall be disposed of so that it will not interfere with proper functioning of the waterway. All spoil and disposal areas shall be graded smooth and shall be free draining.*
5. *Apply fertilizer at the following rates:*

Nitrogen	*30 Lbs./Ac.*	*_____ Lbs. total*
Phosphorus	*60 Lbs./Ac.*	*_____ Lbs. total*
Potassium	*60 Lbs./Ac.*	*_____ Lbs. total*

Unless otherwise specified, apply seed at the following rates:

Kentucky Bluegrass (Baron or Banff)	*15 Lbs./Ac.*	*_____ Lbs. total*
Creeping Red Fescue (Ensylva or Flyer)	*15 Lbs./Ac.*	*_____ Lbs. total*
Redtop (Streaker or Barracuda)	*3 Lbs./Ac.*	*_____ Lbs. total*
Perennial Ryegrass (Pennfine or Pinnacle)	*3 Lbs./Ac.*	*_____ Lbs. total*
White clover (common)	*2 Lbs./Ac.*	*_____ Lbs. total*

6. *An alternative seeding mixture may be applied when authorized by an approving official.*
7. *Apply a mulch of straw or hay at a rate of (2) Tons/Ac.*

PLAN VIEW
NOT TO SCALE

B.M. Elev. _____

B.M. Desc. _____

_____

Date
Designed
Drawn
Checked
Approved
Title

GRASSED WATERWAY – 412A

United States Department of Agriculture
Natural Resources Conservation Service

NRCS Drawing Name

NRCS Project ID

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DESIGN RECORD

Station	____ to ____	____ to ____	____ to ____	____ to ____	____ to ____	____ to ____
Length						
Grade %						
Top width (T)						
Depth (D)						
Peak discharge (CFS)						
Velocity (V)						
* Normal depth (capacity)						

ALTERNATE SIZE

Top width (T)						
Depth (D)						

Soil type(s) _____ Permissible velocity (V_1) _____ ft/sec

Retardance ____D____ for velocity Retardance _____ for capacity

* Optional – for use with NEH–5 computer program

Type of outlet (describe) _____

Engineering survey notes attached? Yes [ ]

Notes

Layout by: _____ Date: _____

PERFORMANCE RECORD (As Builts)

Station	____ to ____	____ to ____	____ to ____	____ to ____	____ to ____	____ to ____
Constructed length						
Constructed grade %						
Minimum constructed top width						
Minimum constructed depth						
Constructed capacity (CFS)						
Constructed velocity						
* Normal depth (capacity)						

Layout Sketch (if not on engineering notes)

Check notes attached? Yes [ ] Seeding established? Yes [ ]

Quantities checked by: _____ Date: _____

I hereby certify that this practice complies with the plans and specifications established for this job, with the following exceptions:

Performance checker: _____ Date: _____

Date
Designed
Drawn
Checked
Approved
Title

GRASSED WATERWAY – 412A

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