The diameter of this part is equal or larger than the diameter of bar spliced.

The diameter of this part is the same as the diameter of the bar spliced.

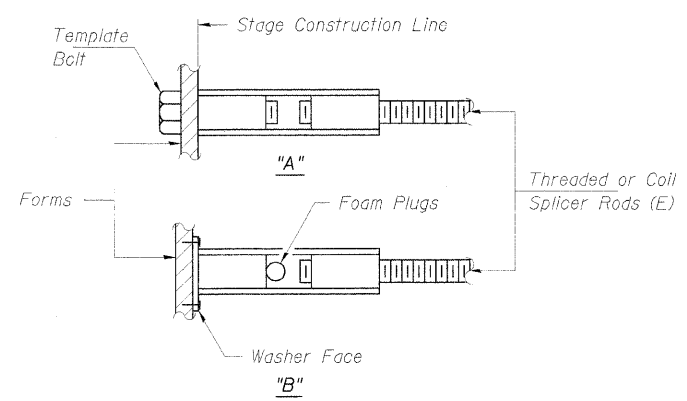**ROLLED THREAD DOWEL BAR**

** ONE PIECE

— Wire Connector

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

Template Bolt — Stage Construction Line

"A"

Forms —
— Foam Plugs
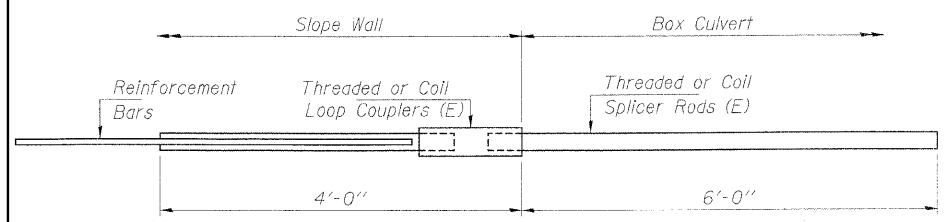Threaded or Coil Splicer Rods (E)

— Washer Face

"B"

INSTALLATION AND SETTING METHODS
"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

Slope Wall — Box Culvert

Reinforcement Bars
Threaded or Coil Loop Couplers (E)
Threaded or Coil Splicer Rods (E)

4'-0"   6'-0"

INTEGRAL ABUTMENT
BAR SPLICER ASSEMBLY DETAIL
FOR #5 BAR

| Min. Capacity = 23.0 kips - tension |
| Min. Pull-out Strength = 9.2 kips - tension |
| No. Required = 30 |

BAR SPLICER ASSEMBLIES

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

NOTES
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:
① Minimum Capacity = $1.25 \times fy \times A_t$ (Tension in kips)
② Minimum *Pull-out Strength = $1.25 \times fs_{allow} \times A_t$ (Tension in kips)
Where fy = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
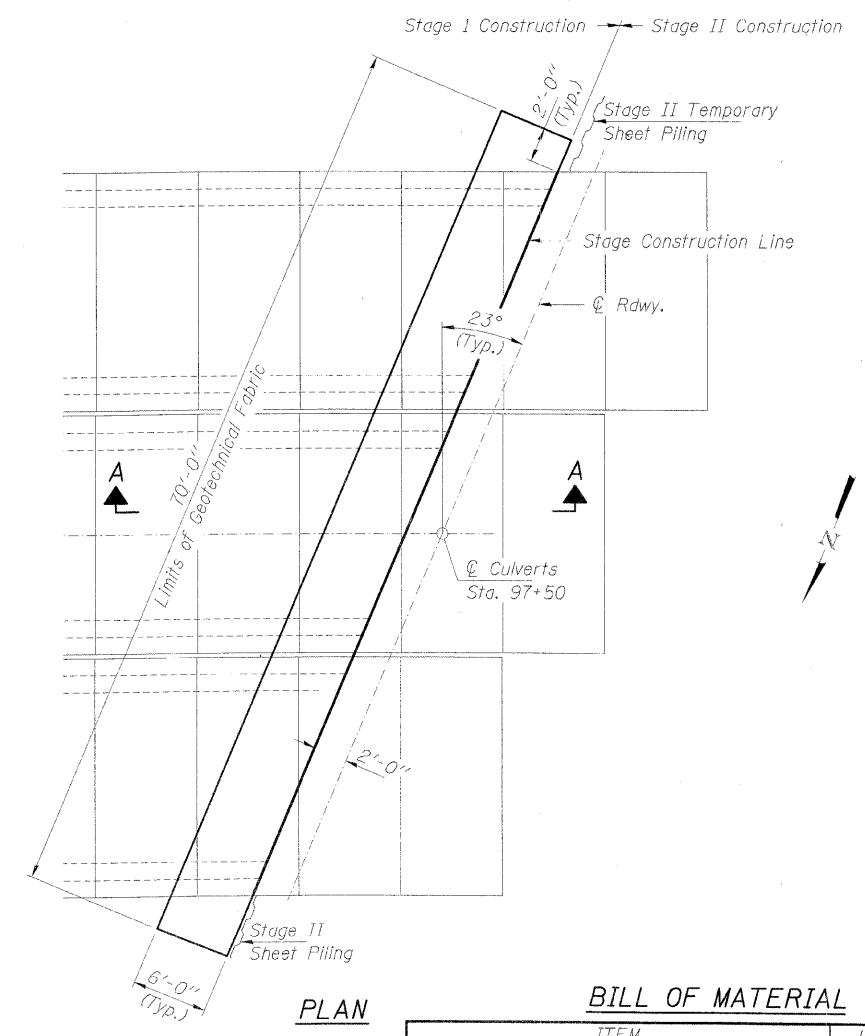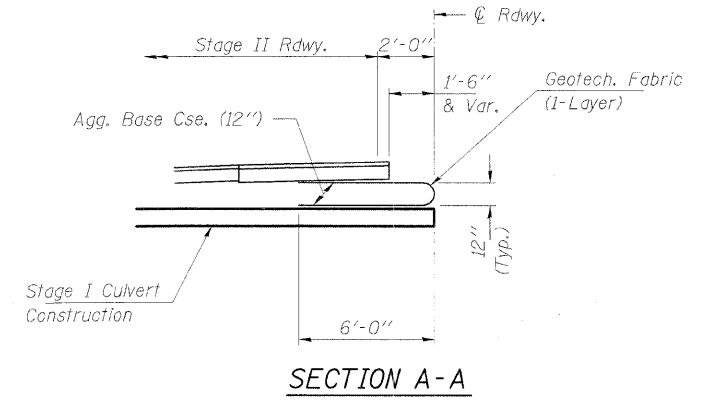* = 28 day concrete

— ℄ Rdwy.
Stage II Rdwy.   2'-0"
1'-6" & Var.
Geotech. Fabric (1-Layer)
Agg. Base Cse. (12")
12" (Typ.)
Stage I Culvert Construction
6'-0"

SECTION A-A

Stage I Construction — Stage II Construction
Stage II Temporary Sheet Piling
2'-0" (Typ.)
Stage Construction Line
℄ Rdwy.
23° (Typ.)
℄ Culverts Sta. 97+50
Limits of Geotechnical Fabric
70'-0"
A   A
2'-0"
Stage II Sheet Piling
6'-0" (Typ.)

PLAN

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	96

GEOTEXTILE RETAINING WALL
F.A.U. ROUTE 5348 / ANNIE GLIDDEN ROAD
SECTION 05-00160-00-WR
CITY OF DEKALB
STATION 97+50